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TRUSCON

TRUSCON
STEEL
CO.

COPPER STEEL

BUILDINGS



TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO
WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES

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TRUSCON

TRUSCON
STEEL
CO.

BUILDINGS

COPPER STEEL

STANDARDIZED FOR THE
OIL INDUSTRY



RUST-RESISTING, NON-COMBUSTIBLE HOUSING FOR

AUXILIARIES
BULK STATIONS
BUNK HOUSES
CAR SHOPS
CARBON CHANNEL BLDGS.
COMMISSARIES
COMPOUNDING PLANTS
COMPRESSION PLANTS
DRIVE-IN STATIONS
GARAGES
GATHERING LINE PUMP STAT.
GREASE PLANTS
LABORATORIES
LINE PUMP STATIONS
MACHINE SHOPS
PAINT SHOPS

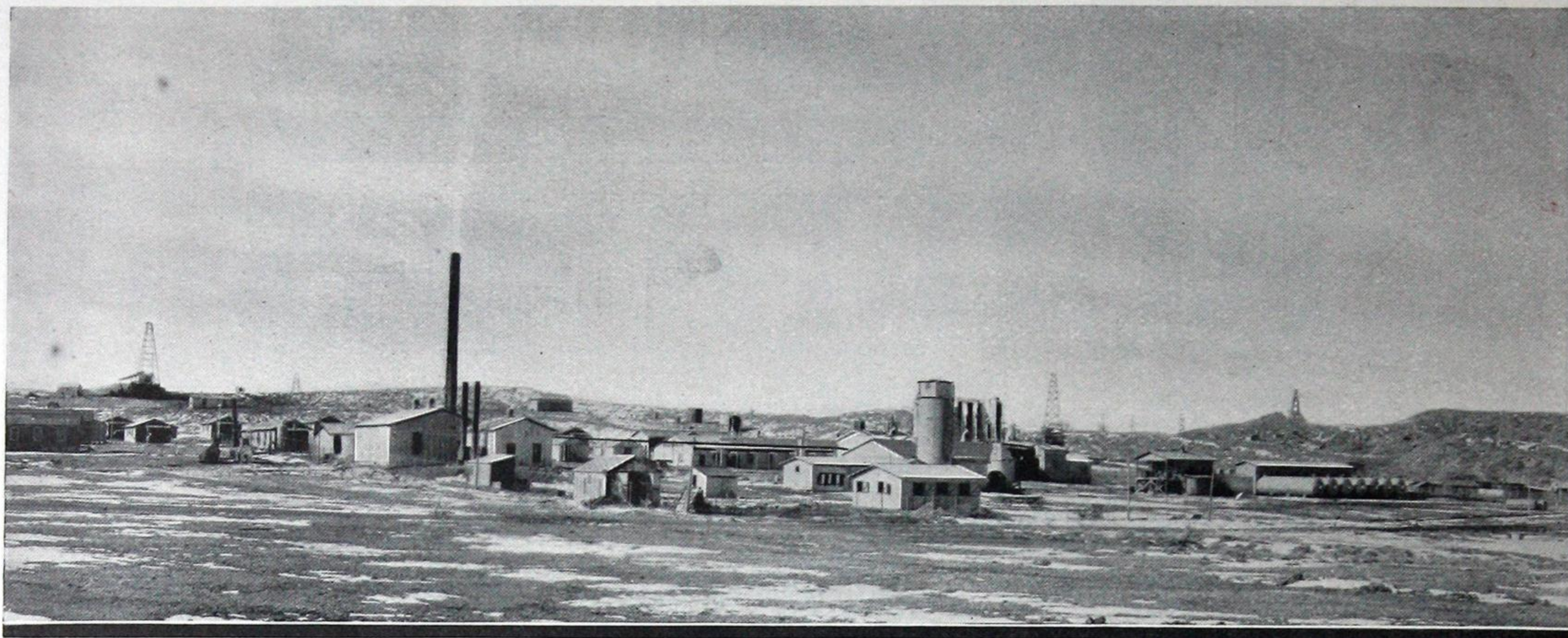
PIPE SHOPS
POWER HOUSES
PUMP HOUSES
PUMPING POWERS
RECEIVING HOUSES
REFRIGERATING PLANTS
REPAIR CREW DEPOTS
RETAIL FILLING STATIONS
SHEDS FOR STILLs
STATION AUXILIARY UNITS
STORAGE HOUSES
TAIL HOUSES
VACUUM PLANTS
WAREHOUSES
WAX PLANTS
WHOLESALE FILLING STAT.

AND FOR ALL OTHER REQUIREMENTS

TRUSCON STEEL COMPANY

YOUNGSTOWN, OHIO

Warehouses and Offices in all Principal Cities



SOLVING THE HOUSING PROBLEM

FROM the very earliest days of the oil industry, the necessity of providing housing facilities has been a serious problem. At one time wood was the only material used in the oil fields for buildings, derricks, storage tanks, tank cars and barrels. Fire was a constant menace; it caused heavy losses and retarded operations.

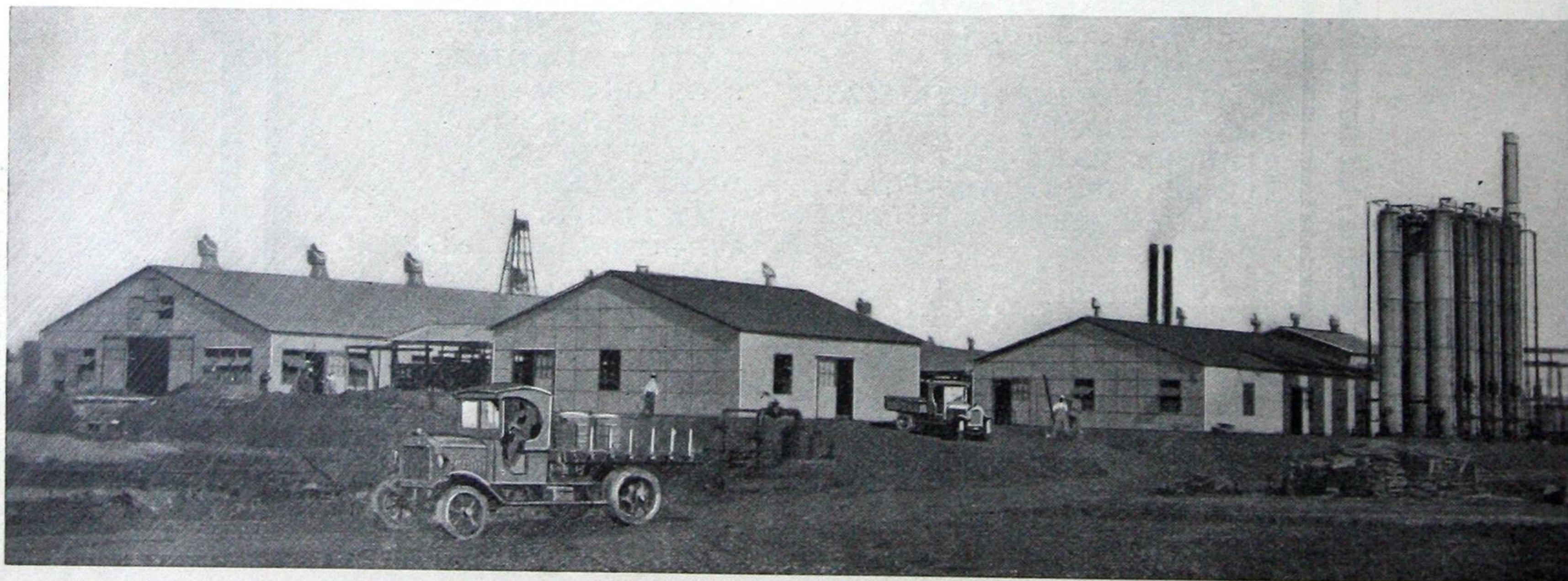
The last twenty years have seen all these conditions changed for the better. Constantly increasing knowledge, experience and improved equipment enables the present day operator

Truscon Buildings in Prospecting and Producing Fields, along Pipe Line Systems, at Refineries, in the Distributing and Market Division, around Casinghead or Natural Gas Gasoline Plants and at Carbon Plants.

to take enormous revenues from products which, in earlier days, were refuse.

One of the most important developments has been the change from wood to steel wherever possible in building construction. It places at the service of oil men the many advantages of Truscon Stand-

ard Steel Buildings and Truscon's highly specialized engineering and erection service. Marked economies in time, labor and money have resulted, for Truscon Buildings meet every housing requirement.



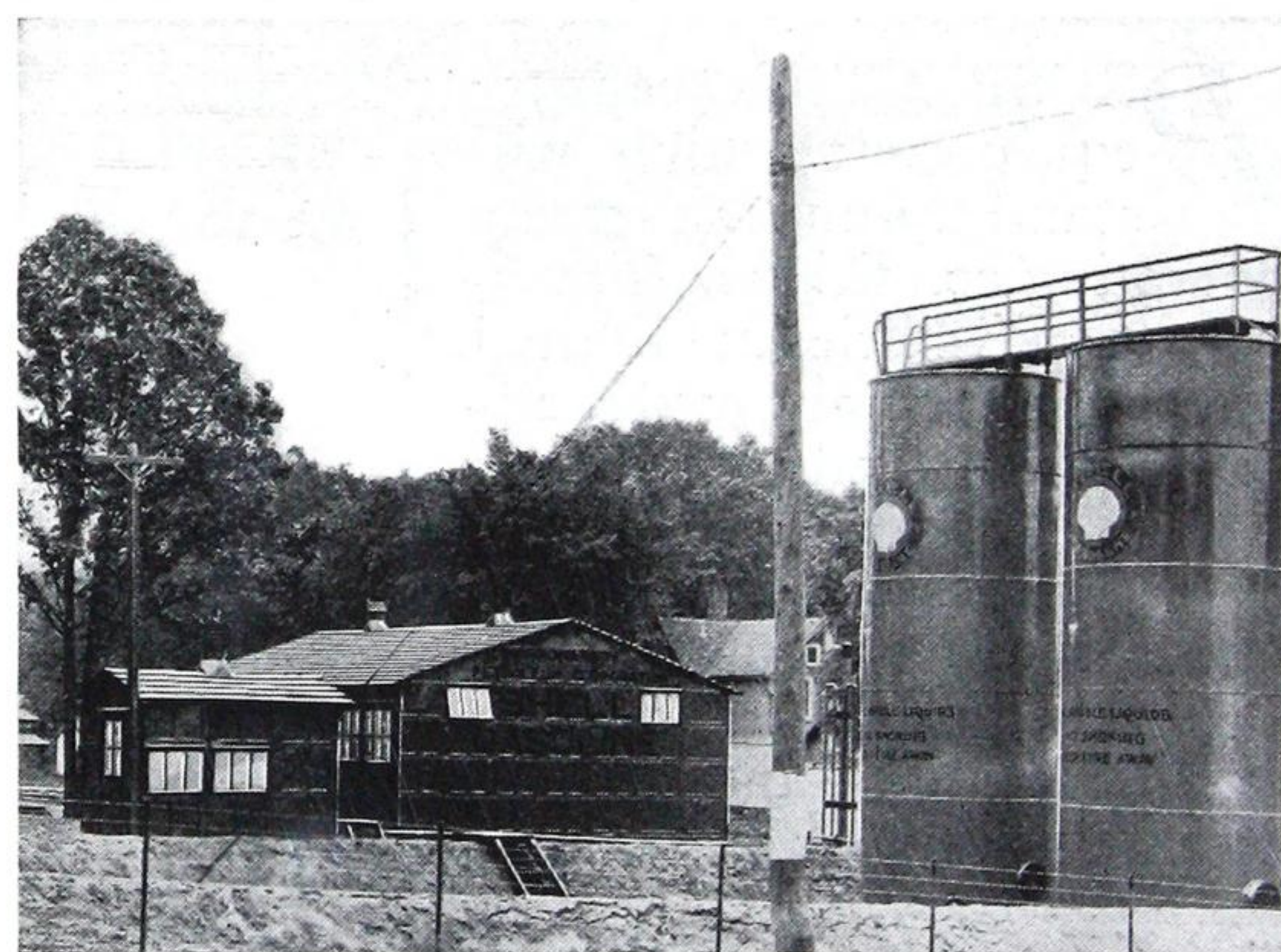
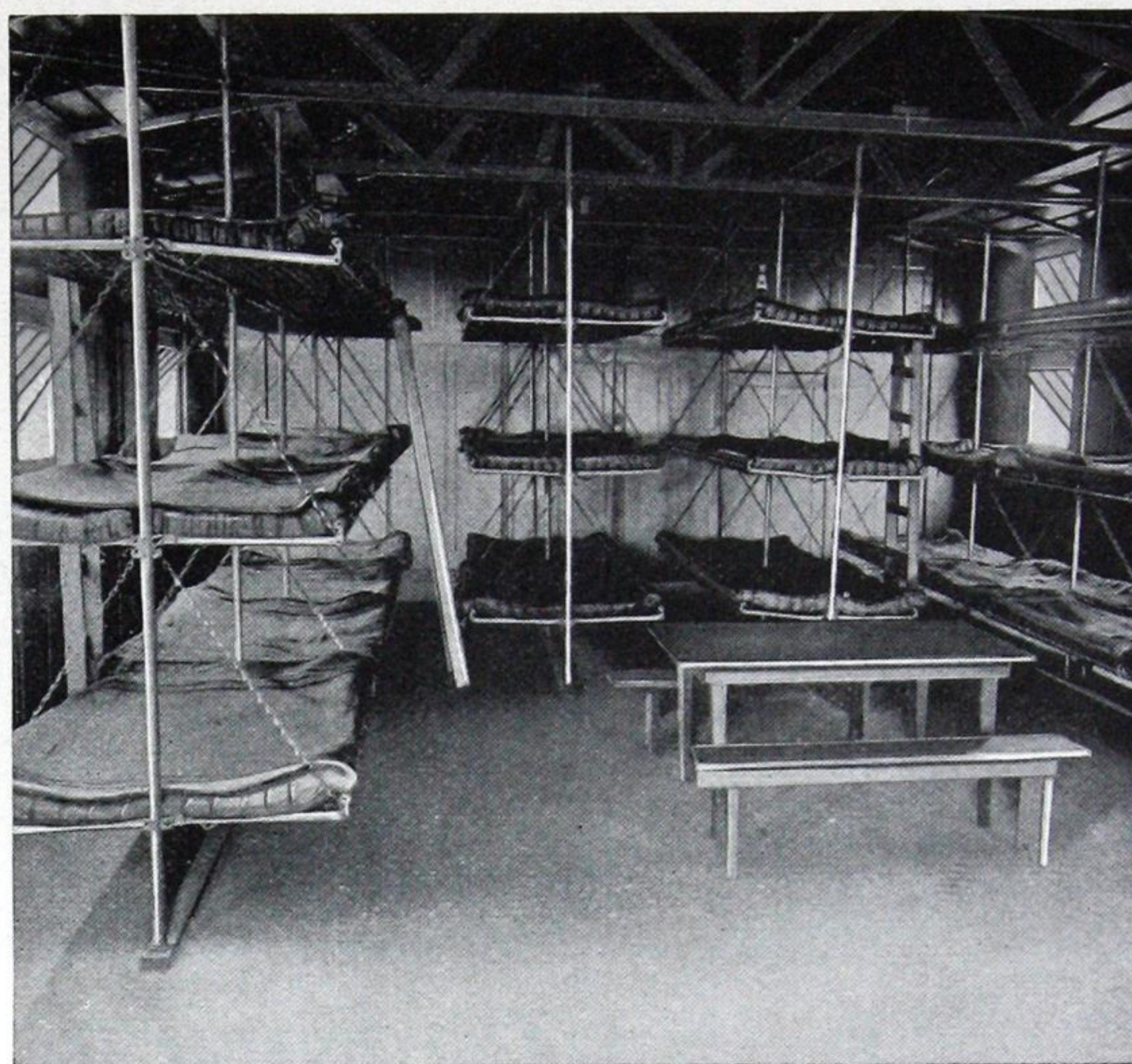
Speed in the delivery and instant erection on the building site.

It not only provides the proper building for a particular housing requirement, but it also effects important economies in clients' overhead and engineering expense. In one instance, an oil company reduced the number of its draughtsmen from thirty to eleven through the consistent use of Truscon Engineering and Designing Service.

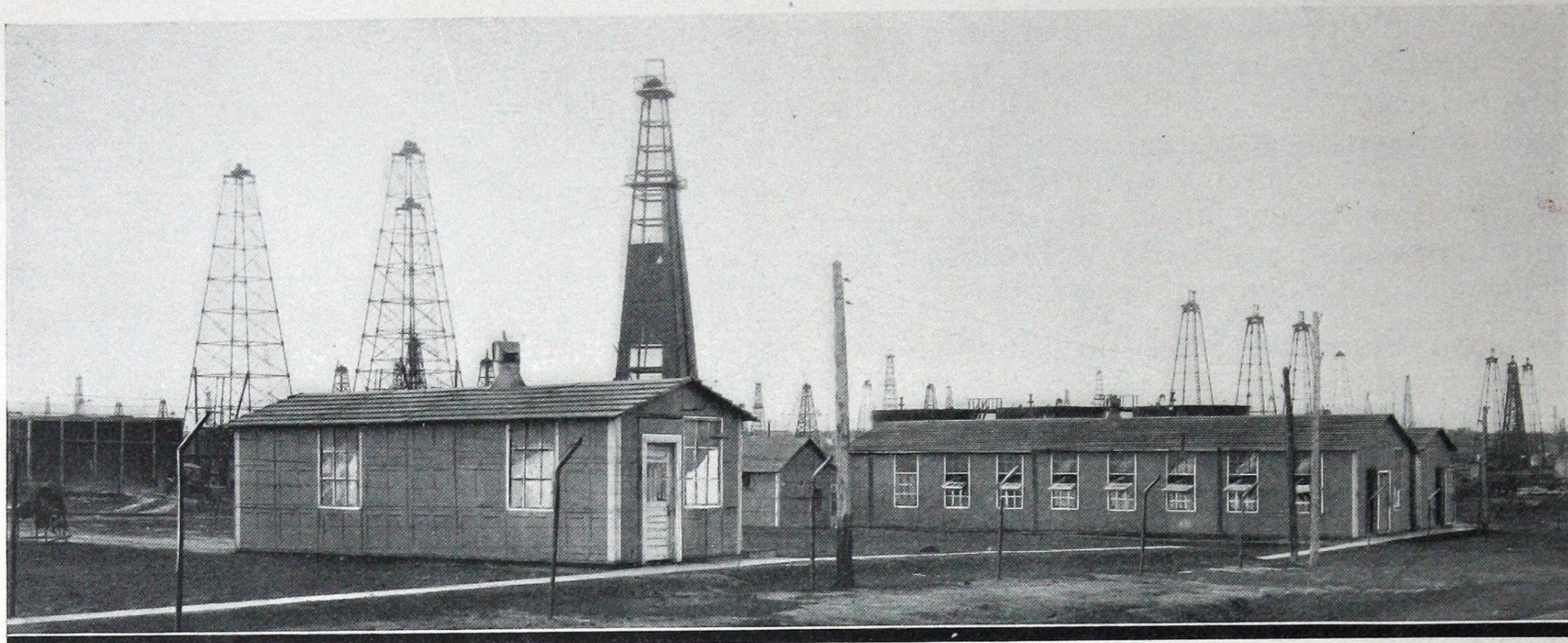
Truscon Standard Steel Buildings include every major factor essential to the various types of structures used by the oil industry. Their satisfactory application does not entail any radical deviation from Standard Truscon products and engineering service methods.

This means that for the first time the problem of providing adequate housing facilities for oil men has been reduced to its simplest terms. Truscon Buildings and Truscon's Engineering and Designing Service enables them to "Trusconize" all building requirements in less time, with less effort, at a lower cost and with the assurance of permanently better results.

The Truscon Plan of Operation delivers to you complete shop fabricated Truscon Standard Steel Buildings fitted to your particular needs and requiring only the labor of assembling large unit sections on the building site. Just like your digesters, they are made of rust-resisting, permanent copper-bearing steel. They are easily and quickly erected at the lowest cost of any non-combustible construction of similar quality and durability, and can be salvaged 100%.



Copper-bearing steel resists corrosion, no bolts or nuts to rust.



PROSPECTING FOR OIL

PROSPECTING calls for equipment which will stand up under extreme operating conditions. Transportation facilities are limited at best and unimproved roads restrict the loads which can be hauled. The actual work of prospecting is carried on under adverse circumstances. Ordinary hazards are multiplied, which makes it doubly important to guard against them, especially the danger of fire. And since this work is of a temporary nature until the oil field has been proved, it is necessary to provide

TRUSCON BUILDINGS in the Prospecting Field

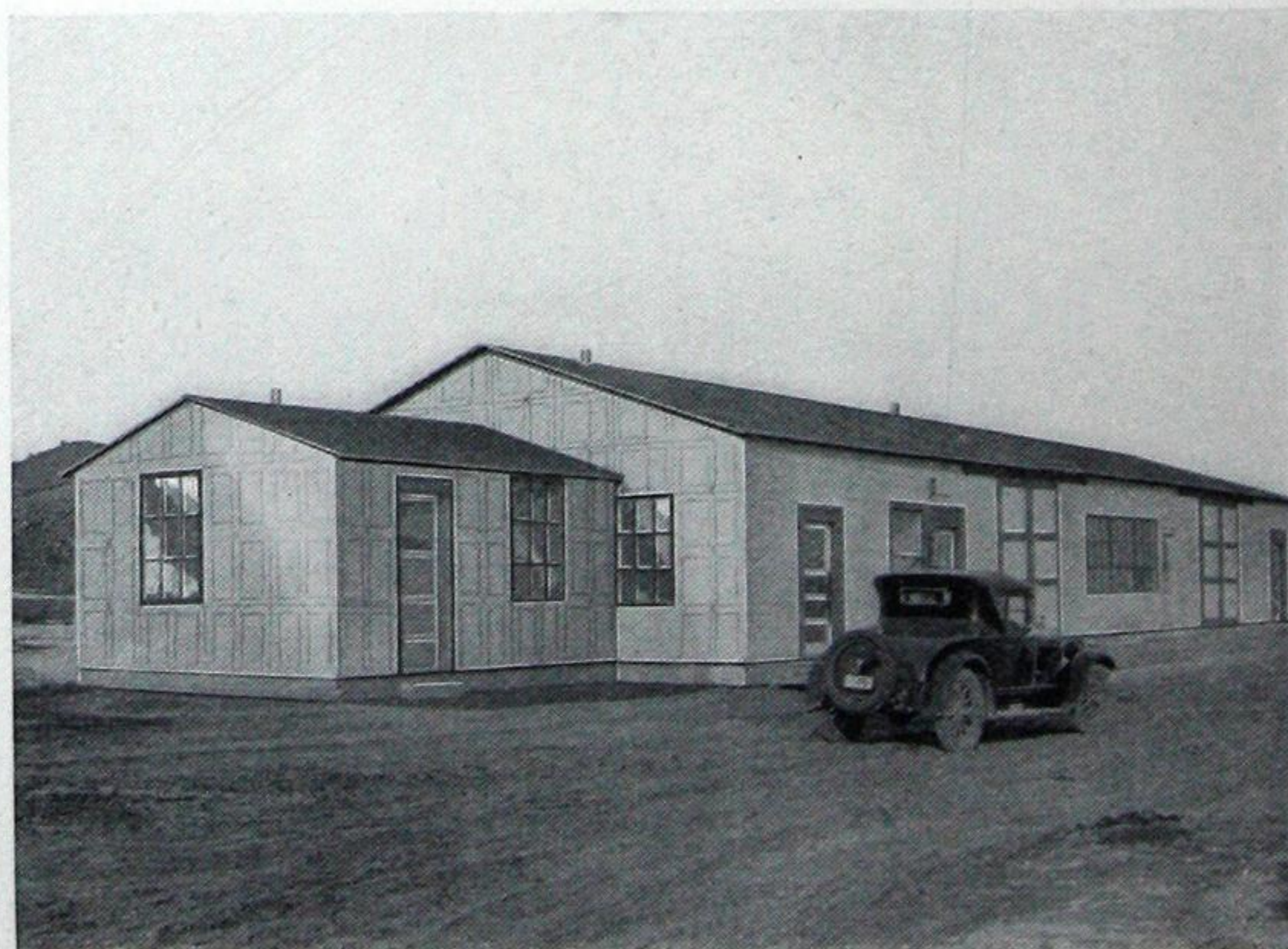
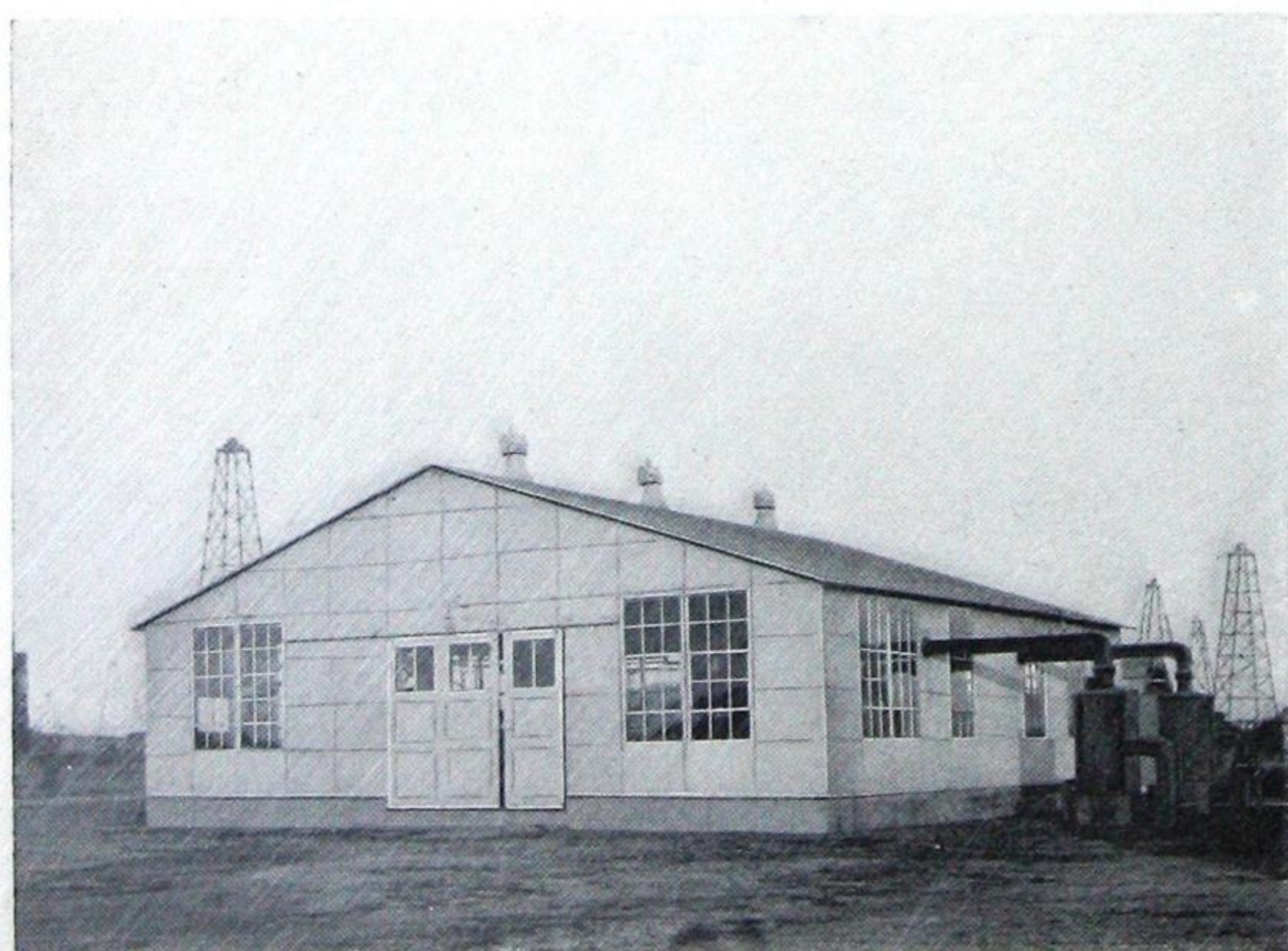
FOR

Bunk Houses
Commissaries
Warehouses
Pump Houses

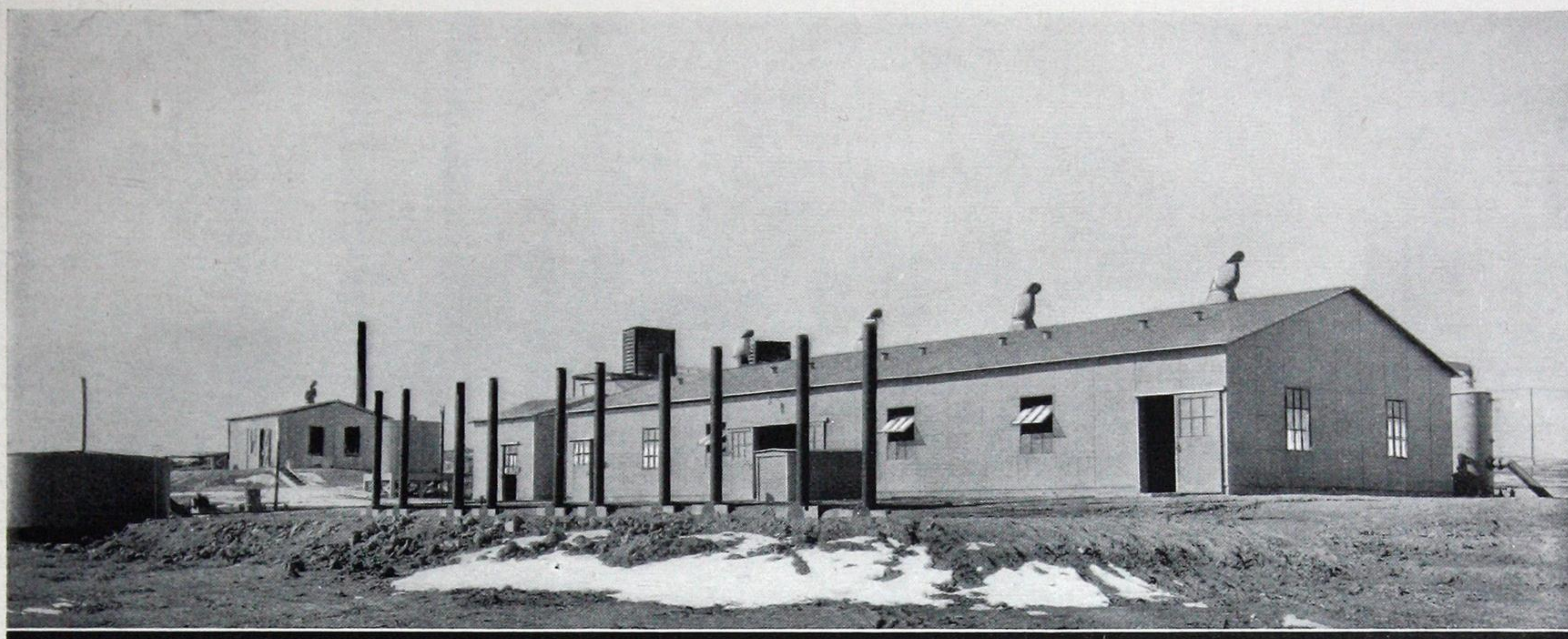
housing equipment which can be salvaged.

Truscon Standard Steel Buildings are widely used to meet the housing requirements encountered in prospecting work. They are strong and durable and will serve as permanent installations, if need be. They are

easily transported and can be quickly erected with any available labor. In addition to being weather-proof and made of non-combustible materials, they can be 100% salvaged for future use at other locations.



Indestructible buildings that can be dismantled and re-erected.



BRINGING THE OIL TO THE SURFACE

THE production phase of the oil industry calls for methods and equipment that will make possible the steady delivery of petroleum at the casinghead on the most economical basis. The housing needs of this phase are similar in many respects to those of prospecting, although buildings are planned for more permanent service.

The provision of such housing requirements calls for structures which are serviceable, durable and adaptable to specialized

TRUSCON BUILDINGS in the Producing Field

FOR

Warehouses

Pumping Powers

Pipe Shops

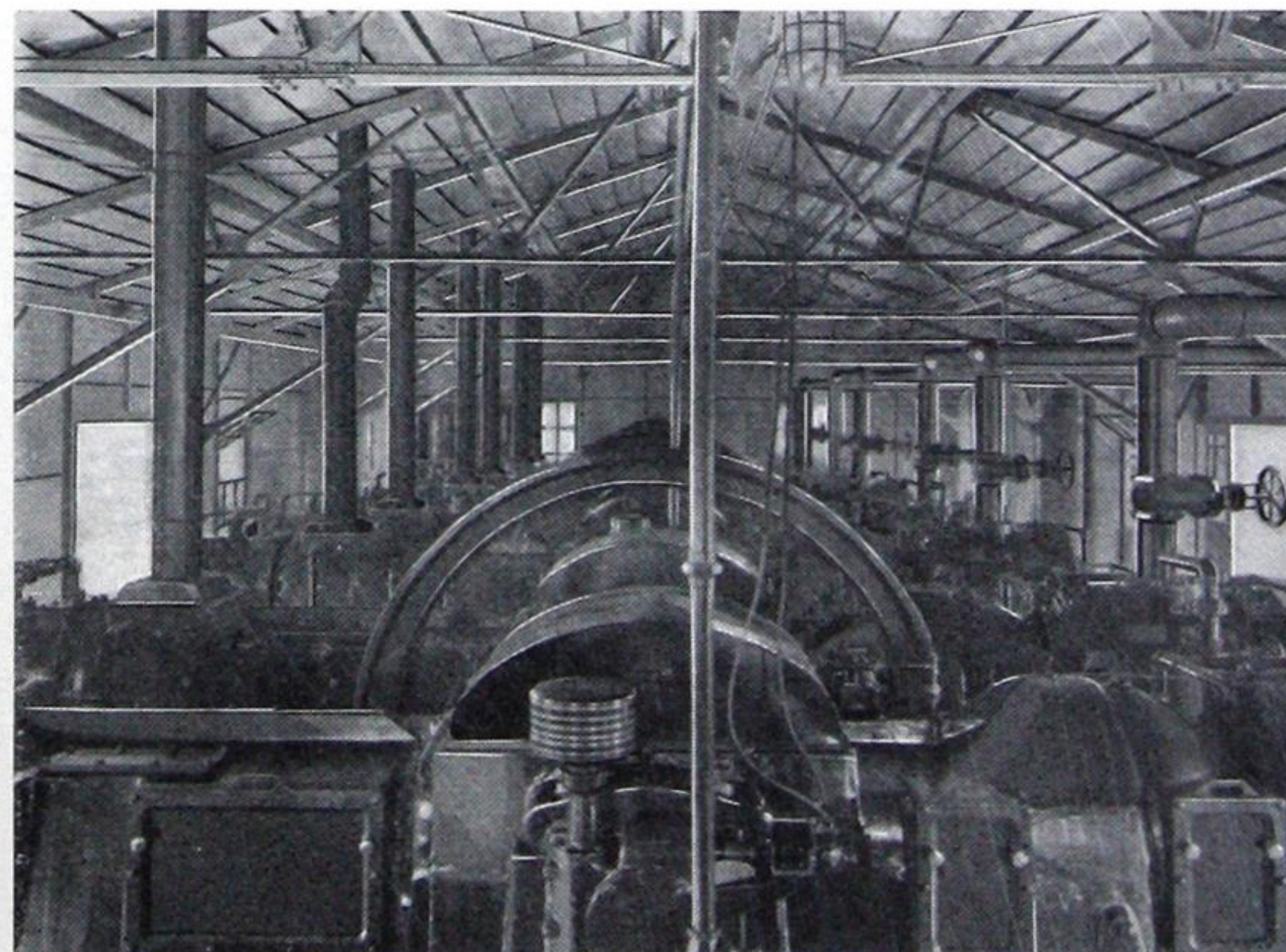
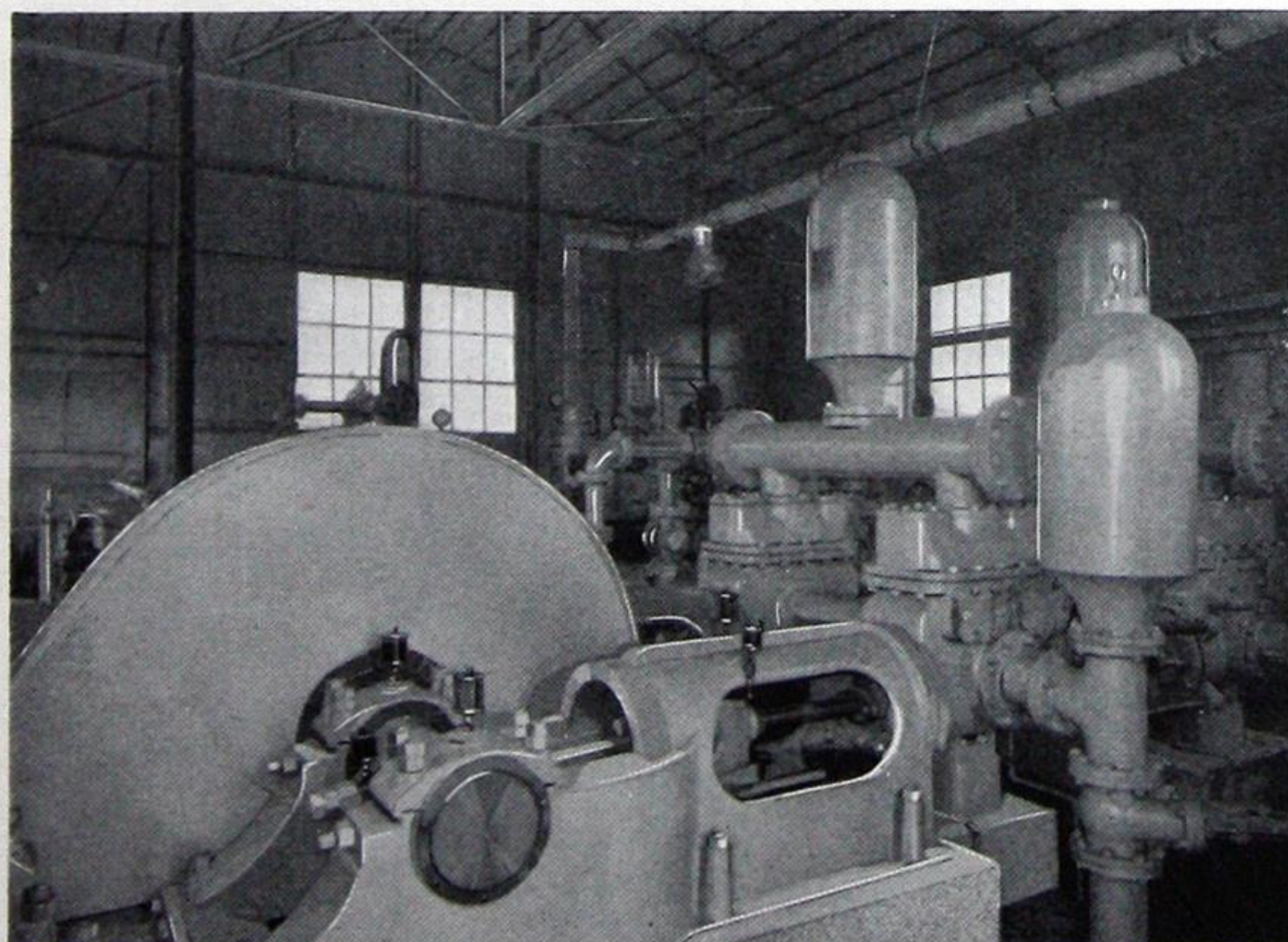
Gathering Line Pump Stations

uses. The eventual necessity, however, of abandoning oil fields requires that the buildings have the highest possible salvage value.

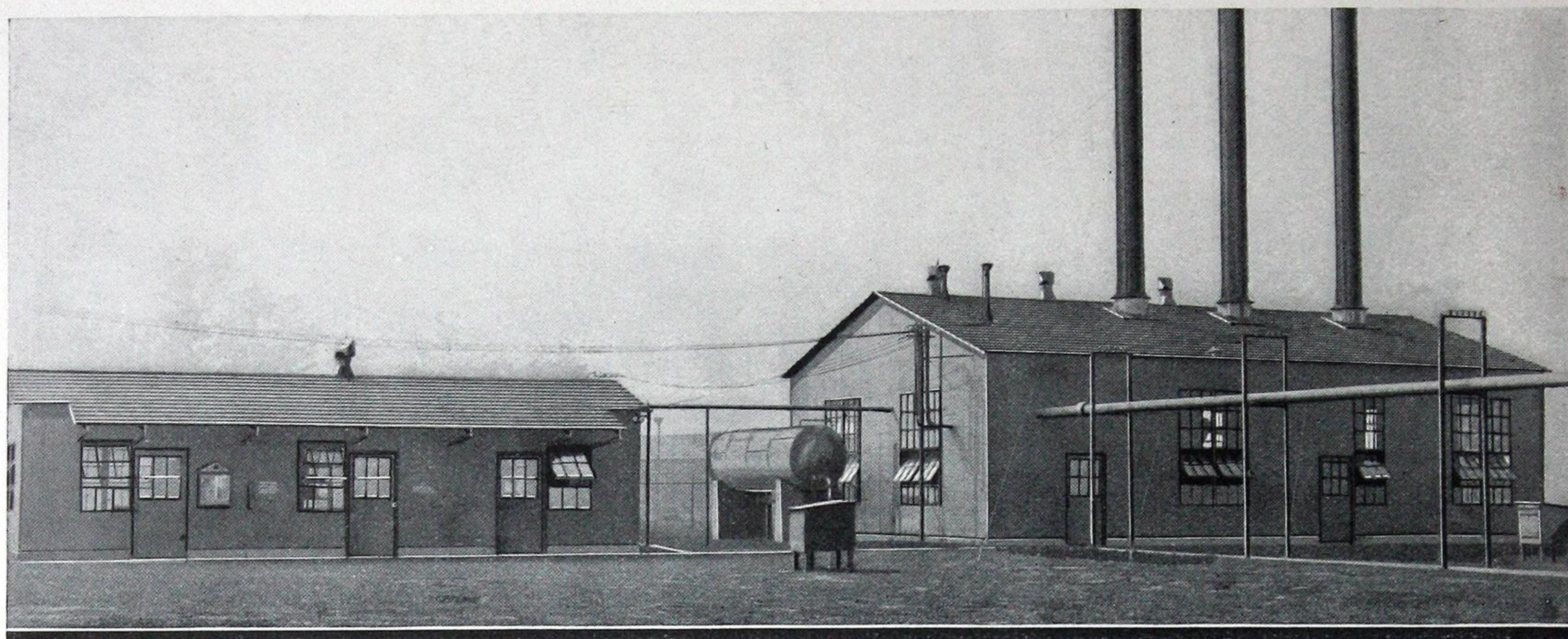
Truscon Standard Steel Buildings meet all such requirements. Every production operation can be ideally housed in a building that

exactly fits the operation. Extra strength of super-structure can be provided as needed to take care of installations of heavy equipment.

These buildings are grounded and immune to damage from lightning.



Least delay in obtaining full possession and commencing production.



TRANSPORTING OIL THROUGH PIPE LINES

AN IMPORTANT development of the oil industry has been the perfection of the pipe line method of transporting petroleum products. Constant effort has been expended in improving pipe line equipment, methods of installation and maintenance. This called for careful consideration of housing requirements for this division.

Trunk pipe lines being permanent installations while gathering lines are of a temporary nature, it is obvious that the required housing facilities present widely differing problems.

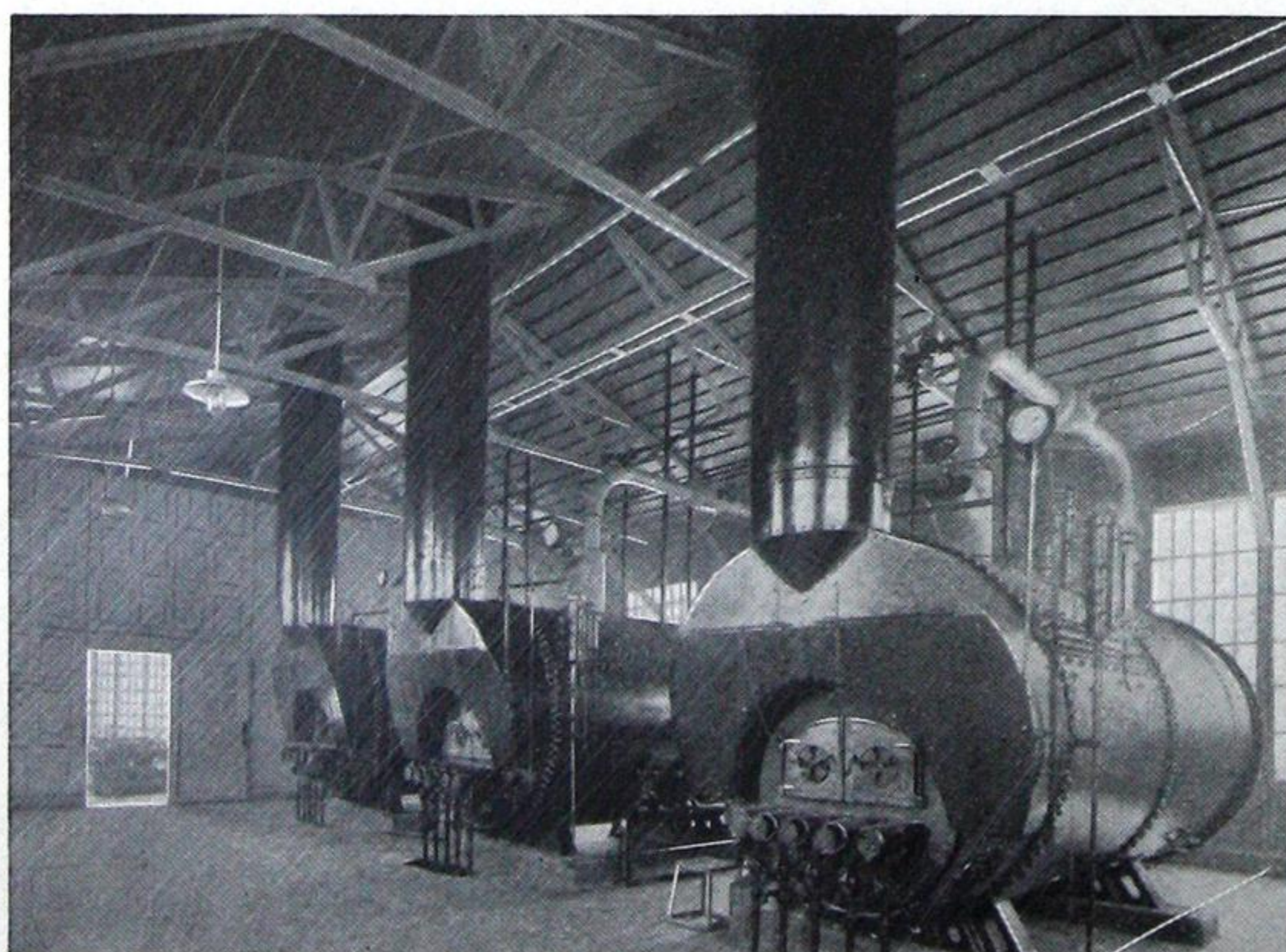
TRUSCON BUILDINGS along Pipe Line Systems

FOR

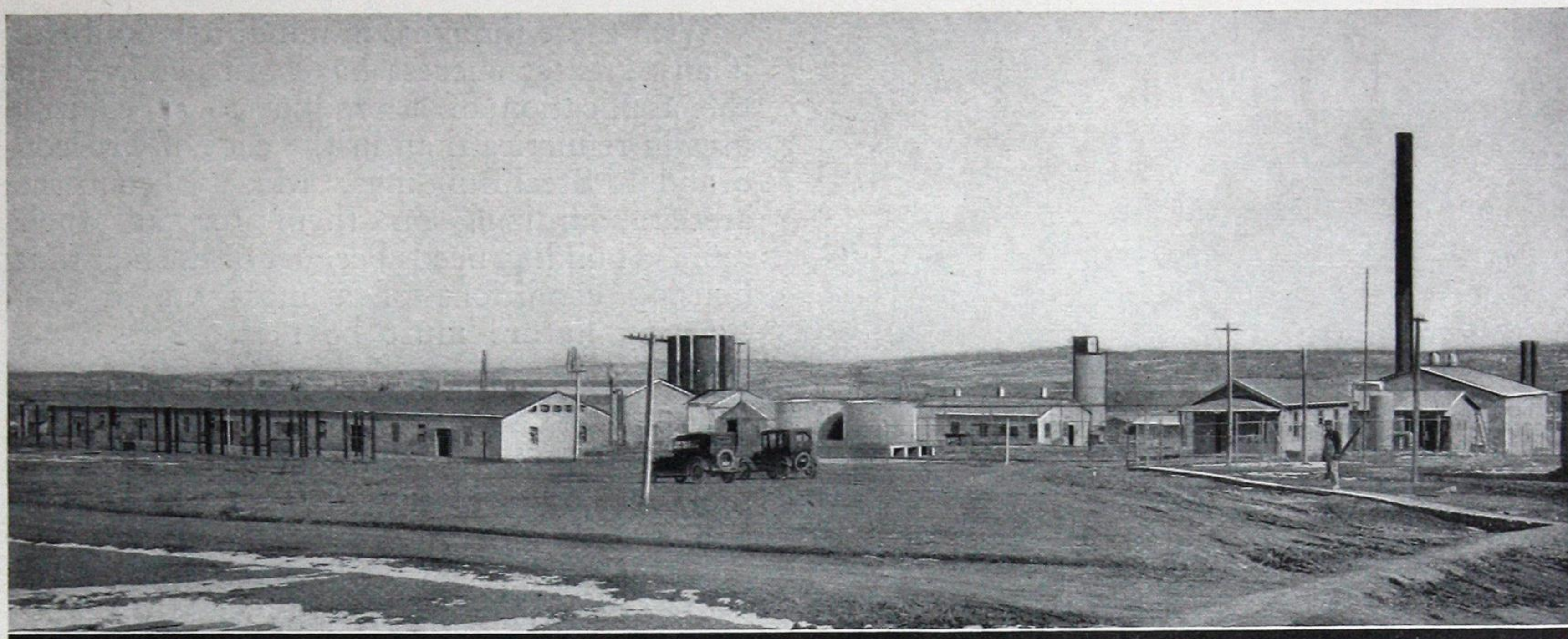
Line Pump Stations
Station Auxiliary Units
Repair Crew Depots
Pipe Shops and Garages

However, the practical experience of oil men in handling pipe line operations has developed certain building standards which solve these problems.

Truscon Standard Steel Buildings meet every housing requirement of pipe line operations. They are ideal for temporary installations which require substantial buildings and they are equally practical for use as permanent structures. Their first cost is reasonable and being made of copper-bearing steel, they are unusually resistant to corrosion.



Buildings of hundred per cent salvage value above the foundation.



MAKING AVAILABLE ELEMENTS OF PETROLEUM

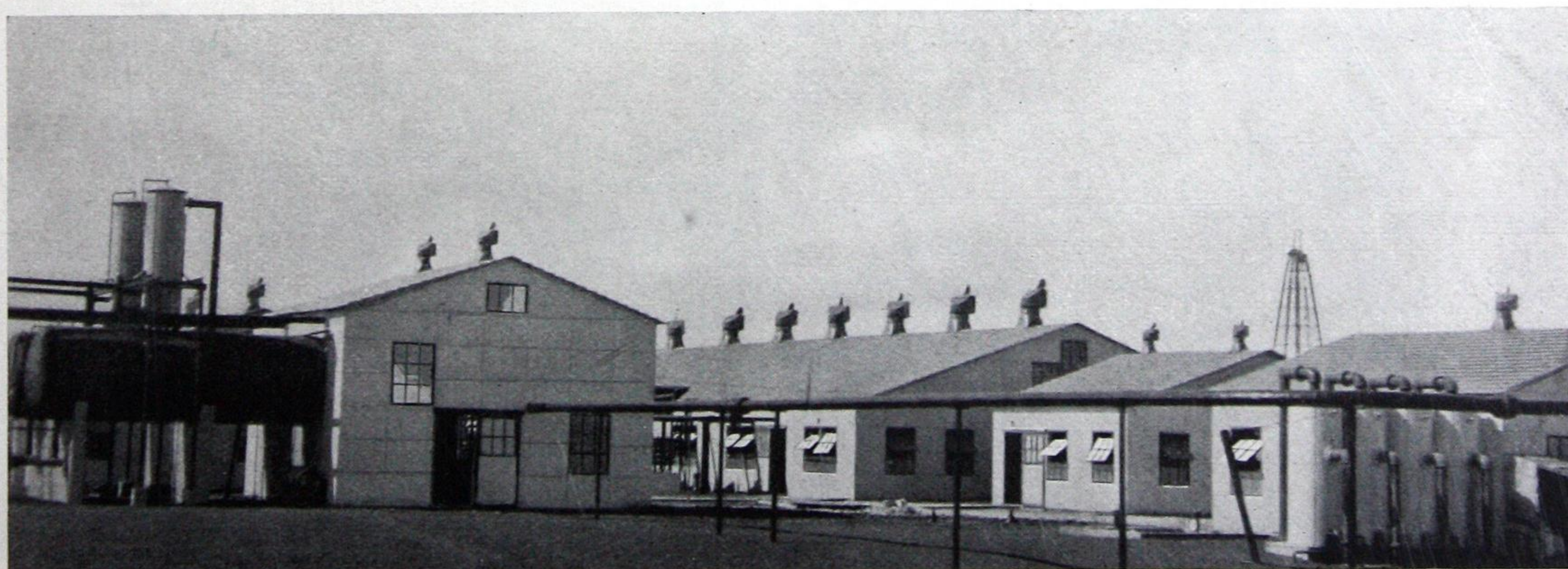
THE wealth now produced by the oil industry comes largely from petroleum products which, only a few years ago, were considered useless. While the perfection of refining processes have been a major contributing factor in enabling crude oil to be broken down into more and more elements, thus increasing its usefulness and the profits to be obtained from its sale.

The development of suitable equipment and housing facilities has gone on apace and assisted materially in better refining methods.

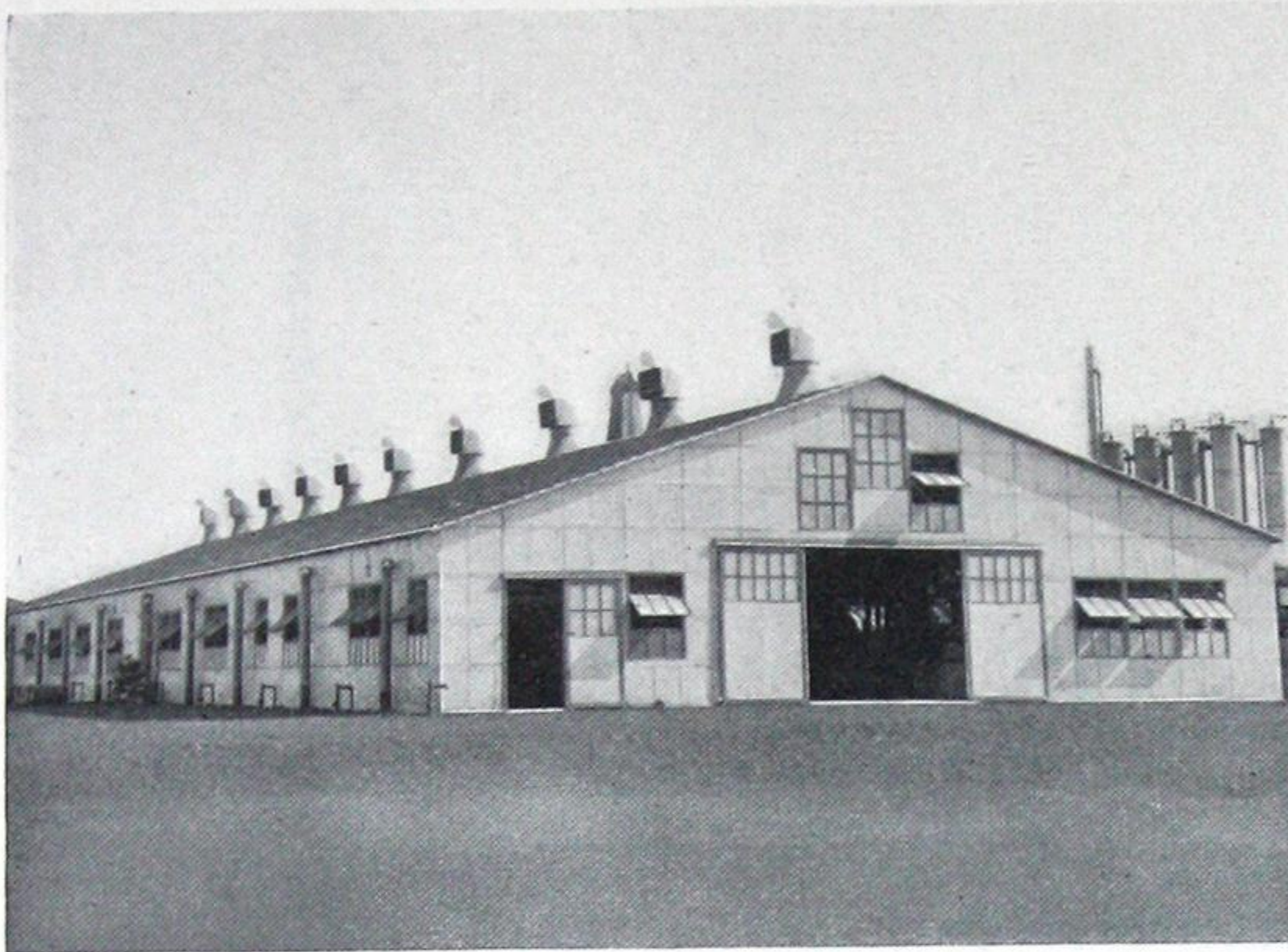
TRUSCON BUILDINGS
at Refineries
FOR
Sheds for Stills
Tail Houses
Machine Shops
Pipe Shops

Work in modern refineries is done under cover. Numerous types of buildings are required but certain inherent features are demanded. First of all, they must provide the most satisfactory housing facilities for the purpose in mind.

They must be permanent, moderate in initial cost and so constructed that they can be quickly and economically erected and their maintenance expense must be low. They must also contribute to the reduction of the ever-present fire hazard, be properly ventilated and daylighted and withstand hard usage.

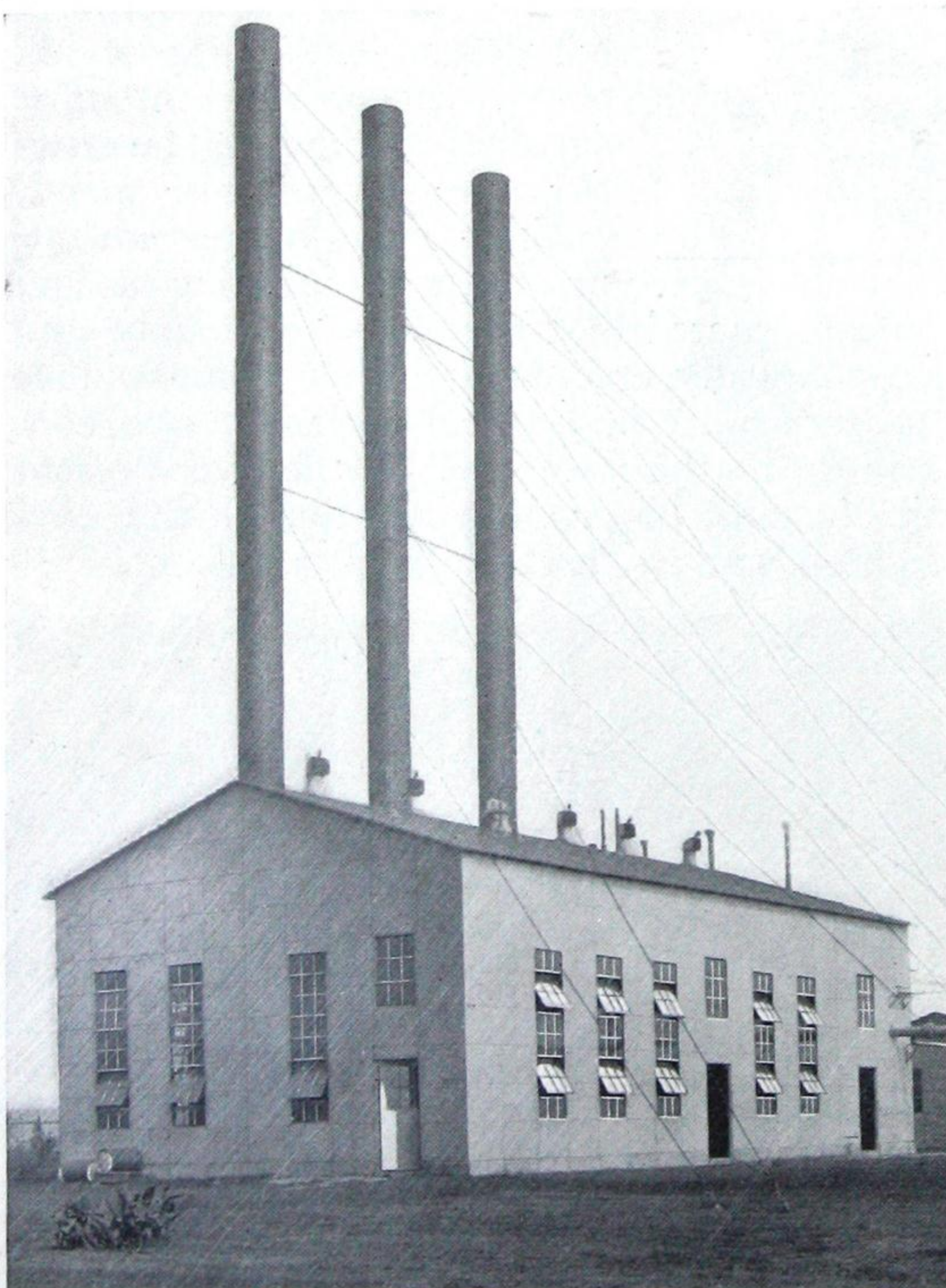


Truscon Buildings are grounded and immune to damage from lightning.



TRUSCON BUILDING
at Refineries for

Car Shops	Pump Houses
Paint Shops	Power Houses
Wax Plants	Garages



With these thoughts in mind, it is doubtful if any greater success has been achieved in the application of a product to specialized uses in refineries than in the case of Truscon Standard Steel Buildings. Many oil concerns are standardizing on them for all their refiners building needs because of the fact that housing conditions of a most varied and exacting nature must be met.

This is because Truscon Standard Steel Buildings are readily adaptable to all one and two-story building requirements and under the supervision of the Truscon Engineering and Erection Service, satisfactory installations of permanent structures are always made at a saving of time and expense.

Proper ventilation, daylighting, convenient layout, sturdy construction and durability are basic features of Truscon Buildings.

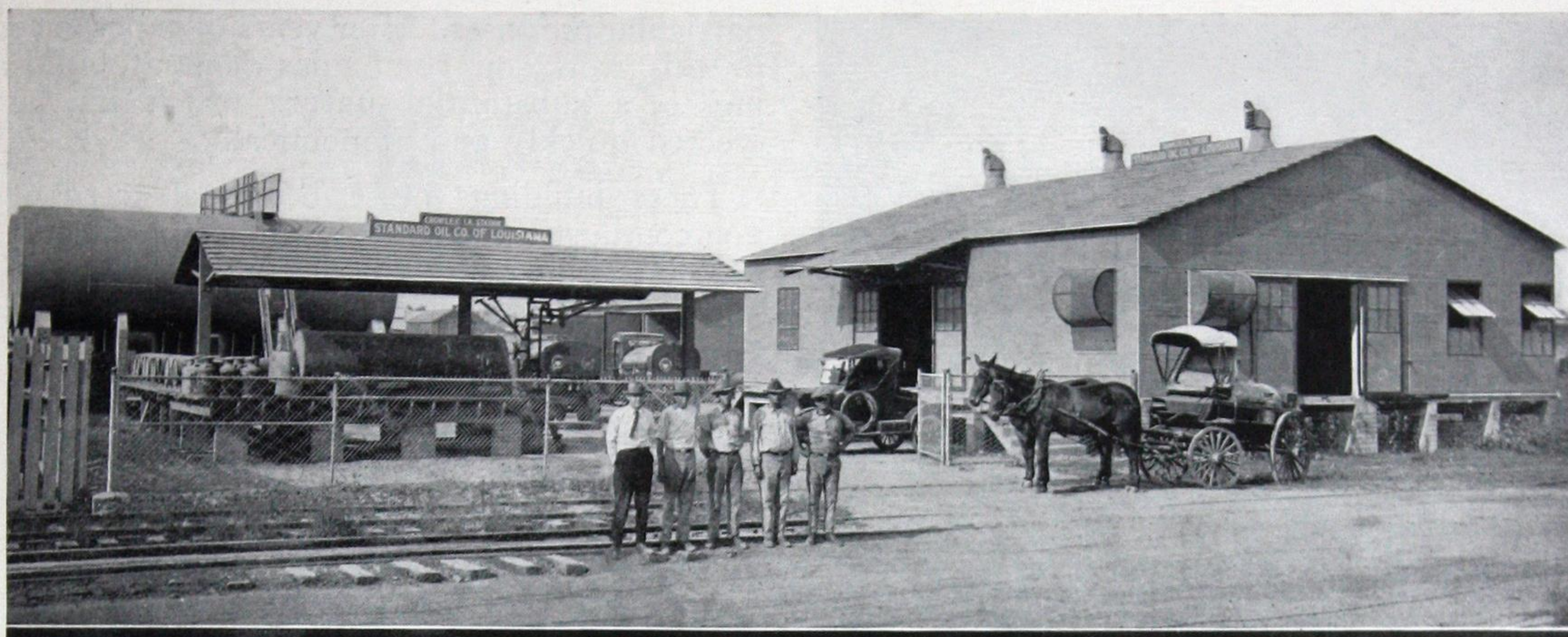
Truscon Buildings are being used for housing practically every operation in gasoline, skimming, topping and lub plants as well as complete refineries.

You will find it advantageous to submit the program of any and all of your housing requirements to Truscon Engineers. Let them analyze your problems and present recommendations and plans for their proper solution. This is part of Truscon specialized building service.

"Trusconize" your buildings. You reduce housing expense and obtain better results with complete satisfaction.



One source of supply, elimination of details of ordinary buildings.



KEEPING MOTOR VEHICLES RUNNING

THE demand for petroleum products resulting from the consistently rapid increase in the use of automobiles, trucks and tractors in recent years has forced the oil industry to extend its efforts all along the line.

The marketing division of the oil business received the full brunt of this burden.

Distribution methods had to be developed on a national scale which would penetrate every community throughout the country and made available the needed supply of

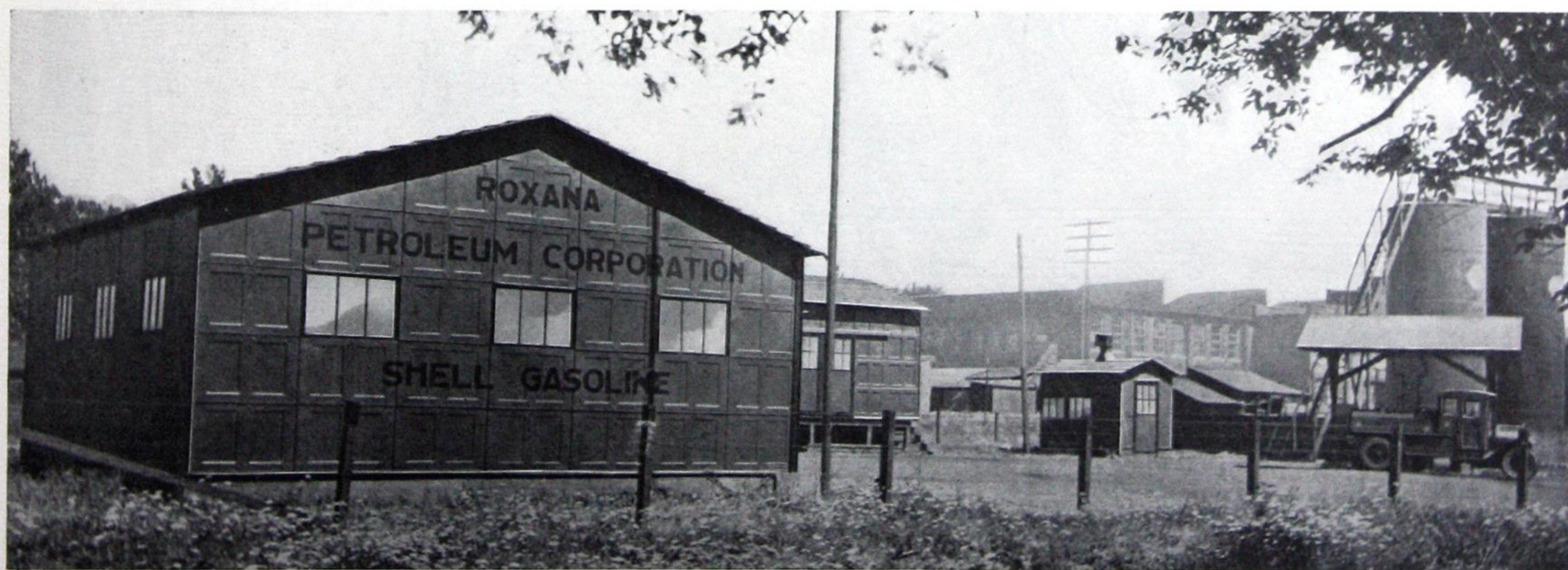
TRUSCON BUILDINGS
in the Distributing
or Market Division
FOR
Receiving Houses
Compounding Plants
Grease Plants
Warehouses

gasoline, lubricating oils and greases.

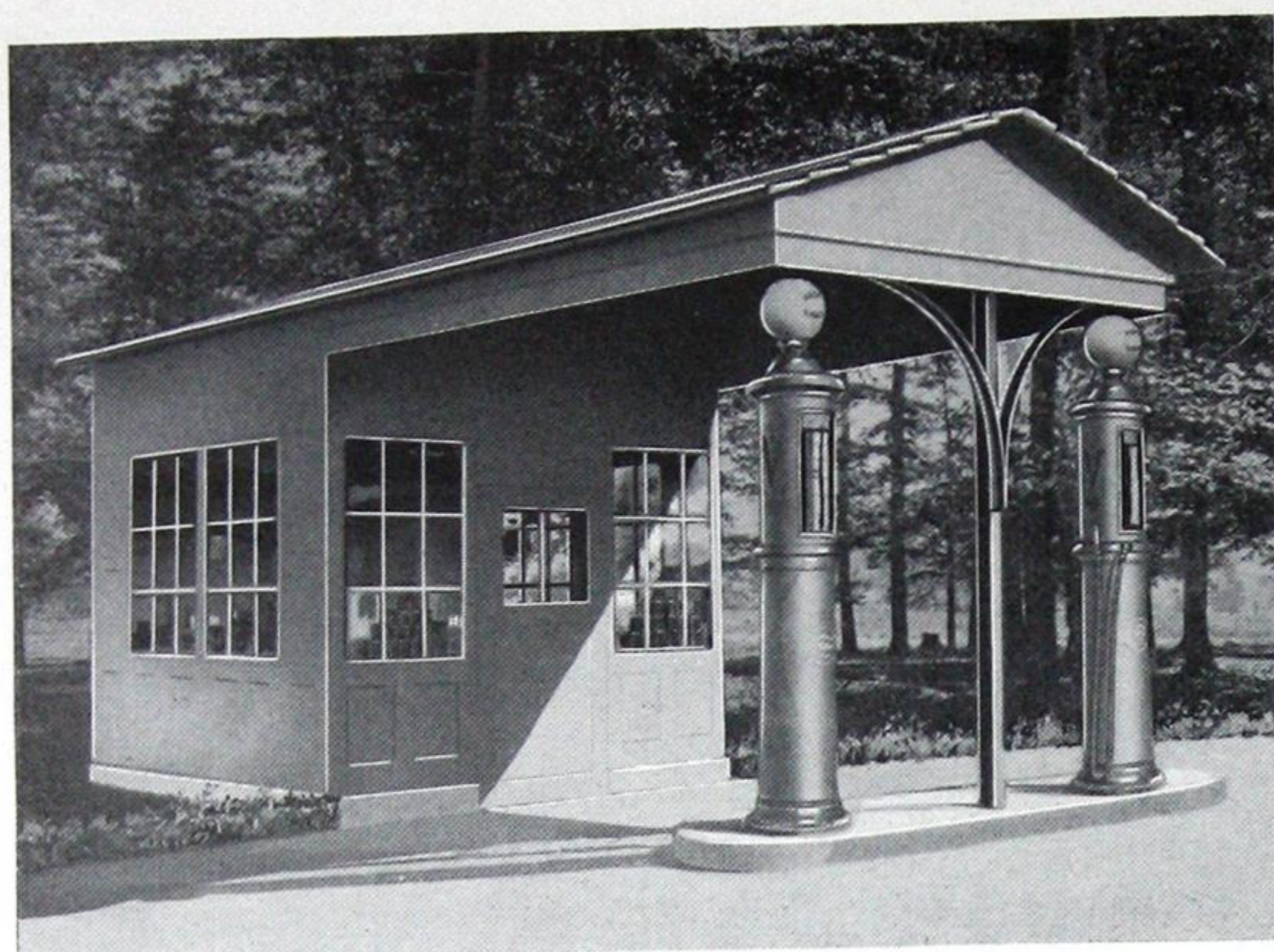
This called for the invention, manufacture and installation of special equipment, construction of storage and retail distribution units, training of personnel, perfection of delivery system for providing necessary stocks of products to sell and the proper

correlation of all marketing activities.

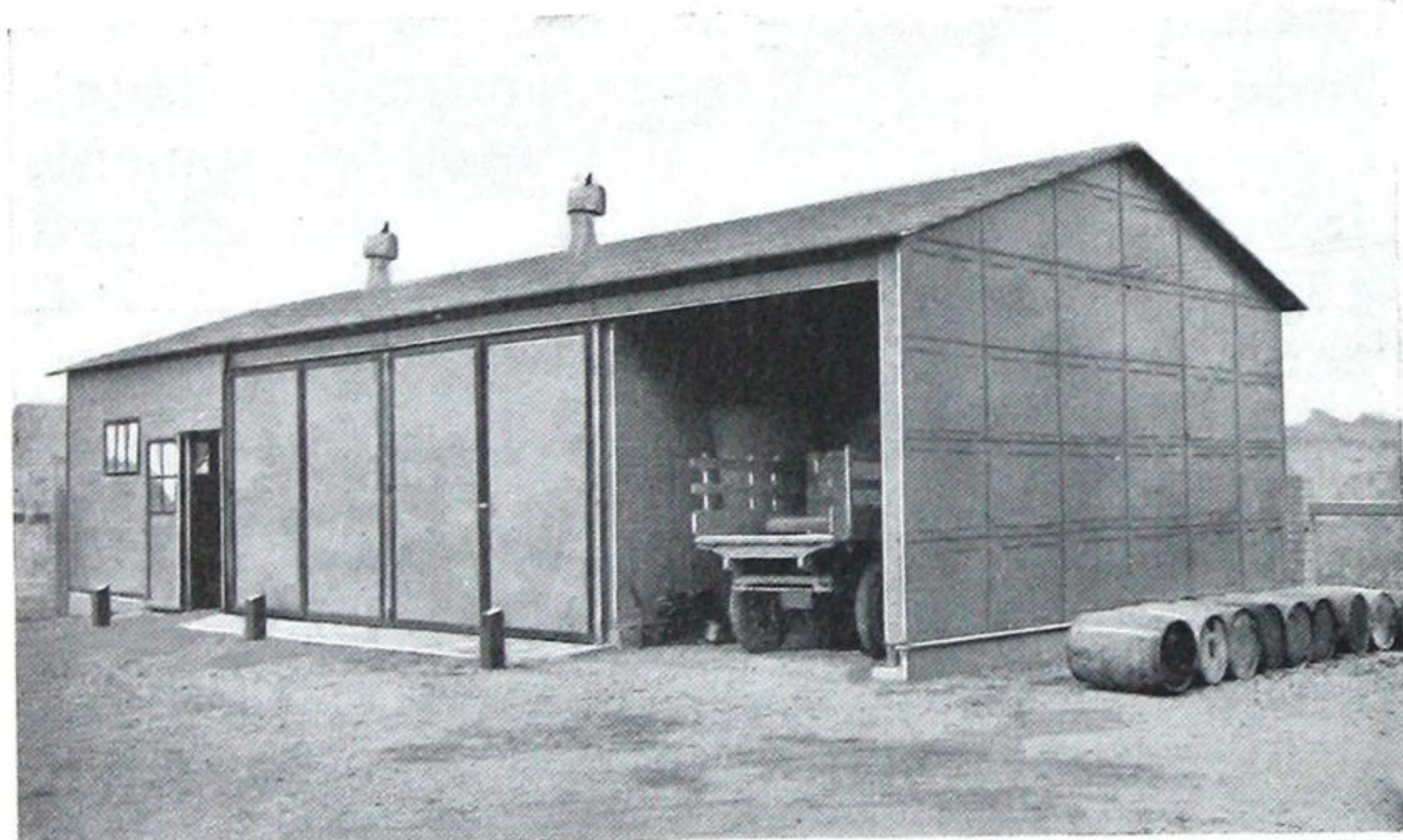
The creation of these marketing facilities for oil products called for innumerable installations of buildings especially adapted for



An entire control of the manufacture of the complete structure.



TRUSCON BUILDINGS
 in the
Distributing or Market Division for
 Bulk or Wholesale Filling Stations
 Drive-In or Retail Filling Stations
 Garages



particular purposes. After years of experience in this work, oil companies demand buildings of a substantial nature which can be erected quickly and economically.

These buildings must be constructed of non-combustible materials and be weather-proof, durable and available in various types and sizes. It is also important that they should be easily salvaged.

Value of Efficient Service

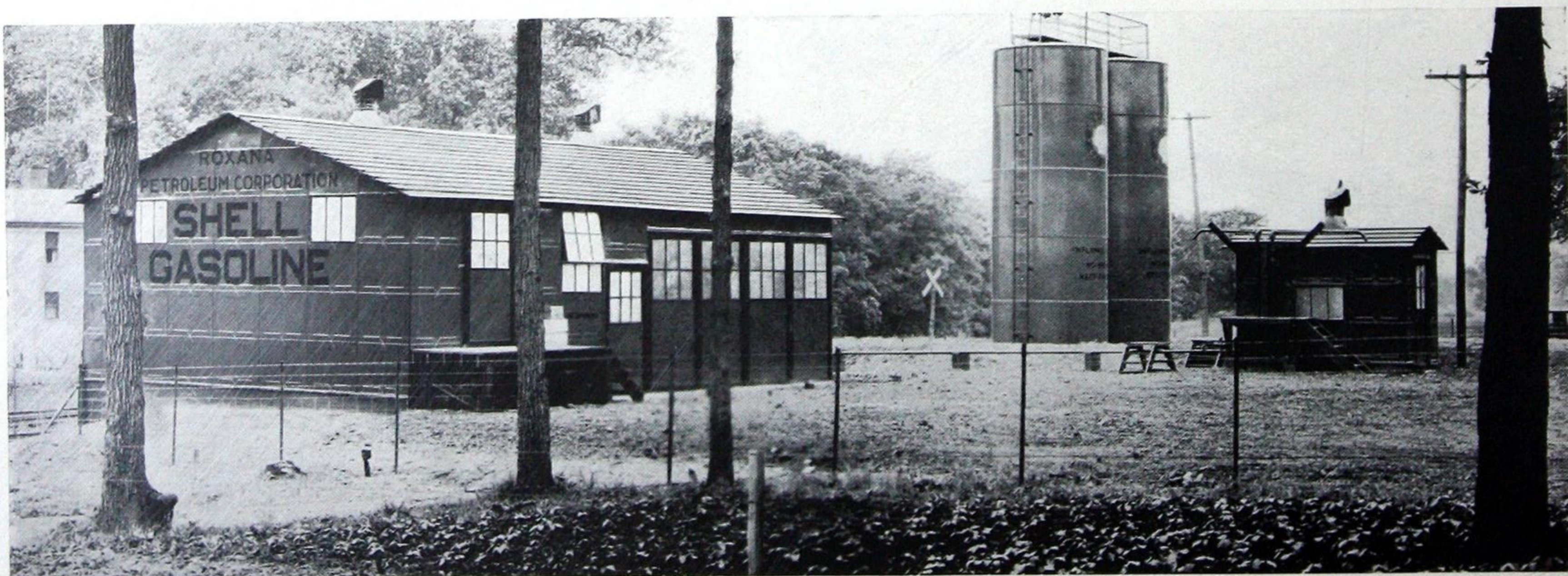
The long service of numerous installations in this field proves that Truscon Standard Steel Buildings meet every building need of the marketing division for housing.

You, too, can benefit by their wide range of adaptability and many other advantages. The co-operation of Truscon Engineering Service is extended to any concern or individual interested in providing suitable housing facilities for any phase of the work of distributing petroleum products.

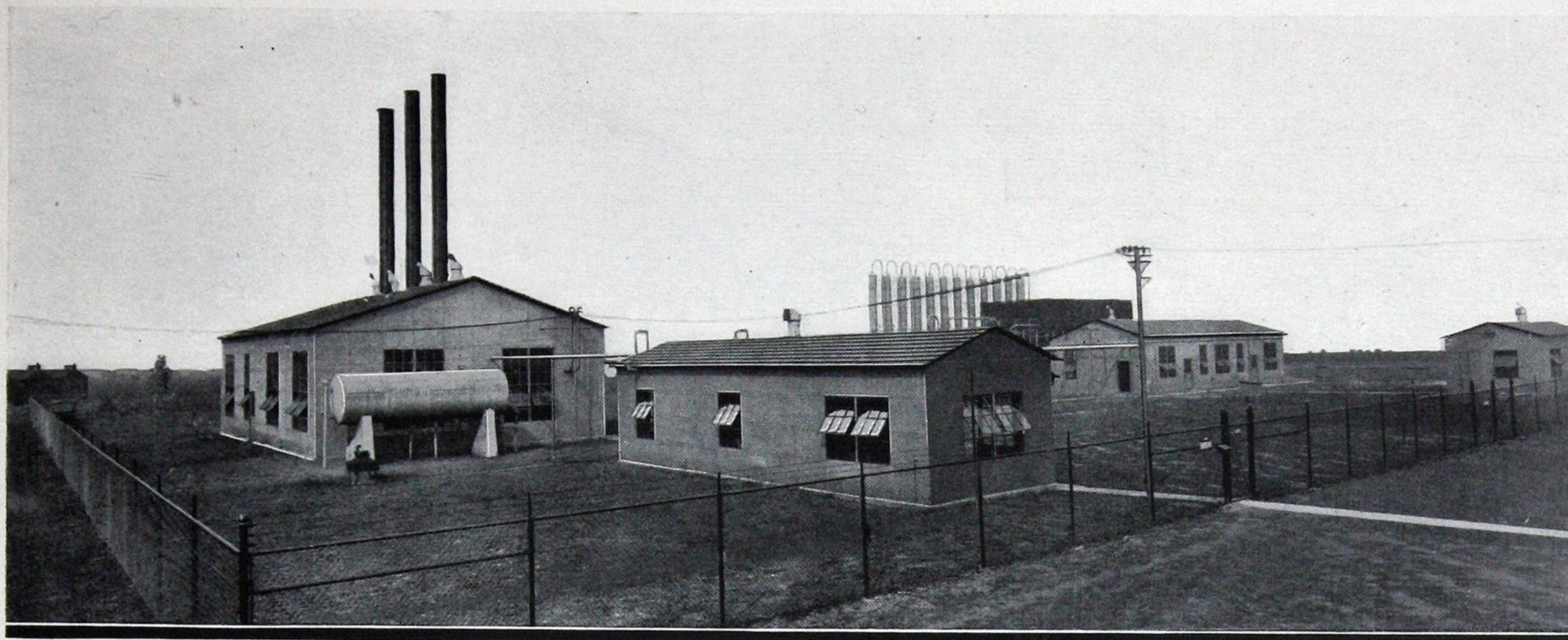
Submit such housing problems to Truscon Engineers and you will obtain better results in less time and at less cost through standardizing on Truscon Steel Buildings.

The Truscon Engineering Service

This service involves all problems of construction from preliminary studies, layouts, simplifying of ideas, refining of details and pre-determination of costs to the complete erection of the structure.



Maximum results through Truscon simplification and standardization.



NATURAL GAS GASOLINE PLANT

COMPRESSORS, vacuum pumps, power units and shops require a considerable capital investment. If the plans provide buildings that can be easily, quickly and economically erected, the investment goes to work that much earlier and less money is spent in preparation.

Once the plant is erected, and producing, the problem of maintenance is encountered. If the equipment is adequately housed in weatherproof buildings the cost of maintenance

TRUSCON BUILDINGS around Natural Gas Gasoline Plant

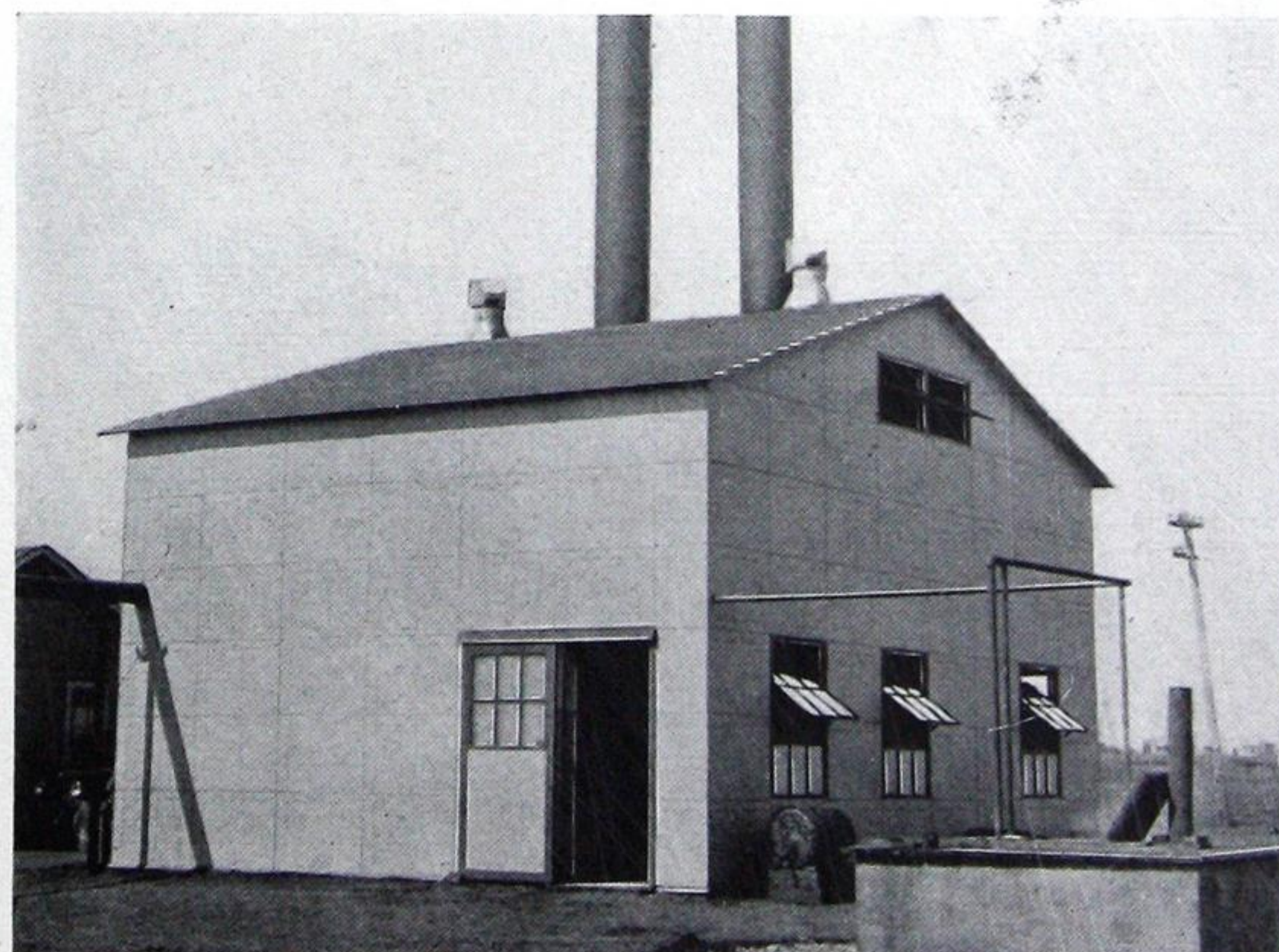
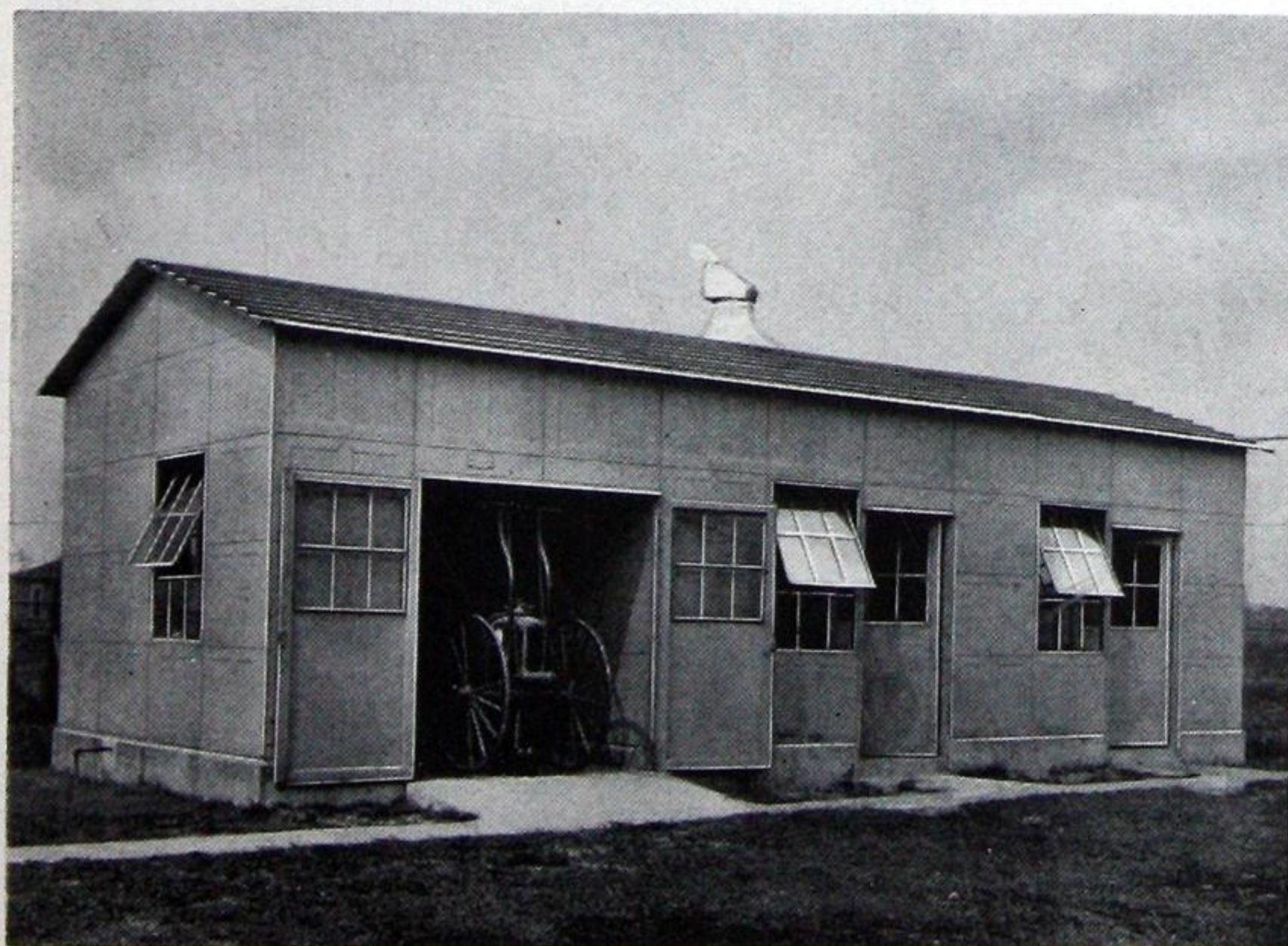
FOR

Vacuum Plants
Compression Plants
Machine Shops
Refrigerating Plants
Pump Houses
Laboratories
Garages

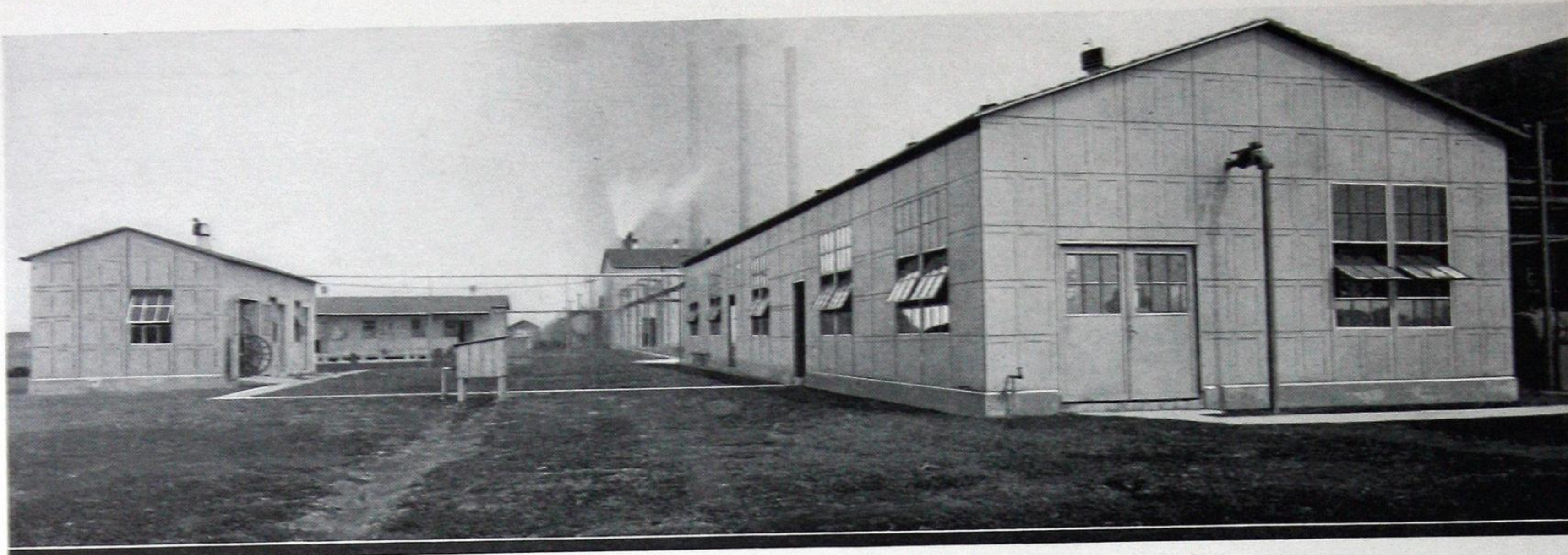
nance is reduced to a minimum and held to that minimum for the life of the plant.

Since the life of any casing-head plant is limited by the supply of gas available, owners must prepare against the diminution of that supply by using buildings which can be quickly and inexpensively dismantled and re-erected at another location.

Our engineers are ready to show you how Truscon Buildings offer you the proper housing for your gasoline plant.



Permanent buildings at a minimum cost consistent with quality.



RECLAIMING CARBON FROM GAS

THE work of reclaiming carbon by the process of burning gas must be done under cover. This means special housing facilities. Whether a number of small buildings or a long, single unit is used for burning carbon, the structures must be made of non-combustible material, able to withstand the excessive heat caused by the burners and impervious to the fumes common to this operation. They must be substantial, easily

TRUSCON BUILDINGS
at Carbon Plants
FOR
Carbon Channel Buildings
Warehouse
Machine Shops
Pipe Shops
Office
Garage

and quickly erected, as well as simple to dismantle.

Numerous installations of Truscon Standard Steel Buildings for housing carbon burning operations, prove that they meet such building requirements in a most satisfactory manner. Many companies use them exclusively for all installations of

carbon burning plants because Truscon Steel Buildings provide ideal housing facilities for this purpose.



Progressive companies in the oil field adopt Truscon Buildings.

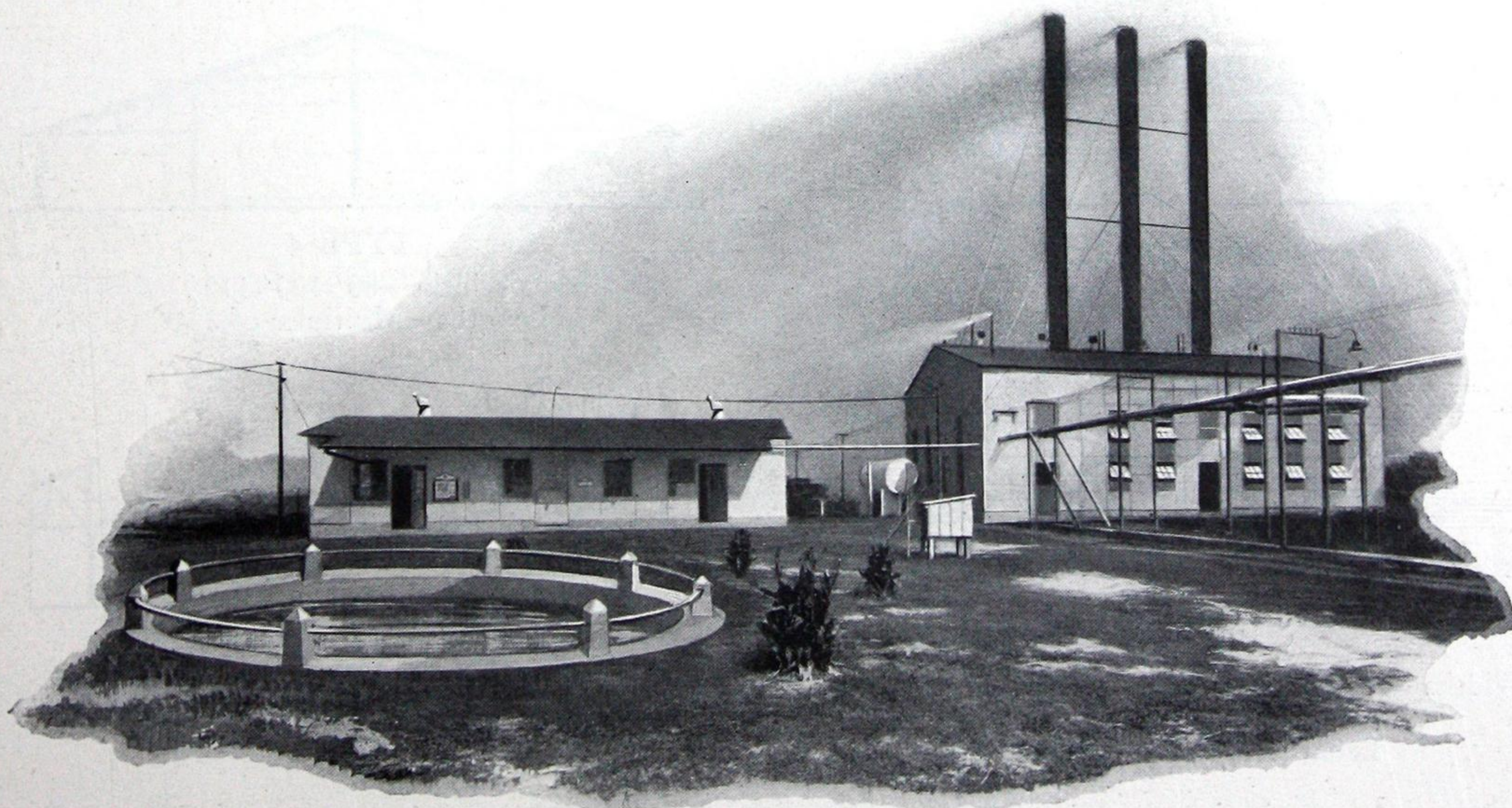
TRUSCON COPPER STEEL BUILDINGS

Types and Details of Construction

THE completeness with which Truscon Standard Steel Buildings lend themselves to the service of the Oil Industry has been illustrated in the foregoing pages.

At least a slight acquaintance with the various types and details of their construction is necessary to an appreciation of the extraordinary quality, value, and adaptability Truscon Standard Steel Buildings offer the oil operator.

TRUSCON STEEL COMPANY, YOUNGSTOWN, OHIO



PITCHED ROOF TYPES—SERIES “A” with Interlocking Plate Type Roofs (page 22) or “Steeldeck” Roofs with Built-up Roofing (page 23)

THE roof pitch of all Series “A” buildings is standard, 4" in 12". These pitched roof buildings allow maximum headroom with minimum wall heights.

Heights given for Series “A” buildings are wall heights, also clearance heights and they apply to all types of the series. The width is the distinguishing dimension.

These buildings can be secured in many different widths and any length in even feet. The recurrence of the same spans in different types, makes possible an almost unlimited choice of Truscon Buildings.

Roofs for Series “A” buildings may be of Truscon “Steeldeck” with built-up waterproofing or the Truscon Interlocking Type.



TYPE 1

Widths—8'-12'-16'-20'-24'-28'
 Lengths—Multiples of 2'-0"

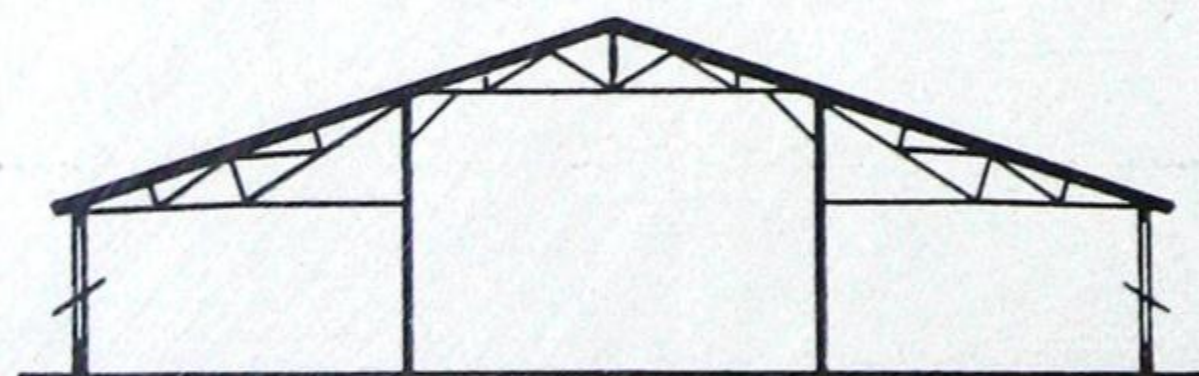
TYPE 1-S

Widths—32'-40'-48'-50'-60'-68'
 Lengths—Multiples of 2'-0"



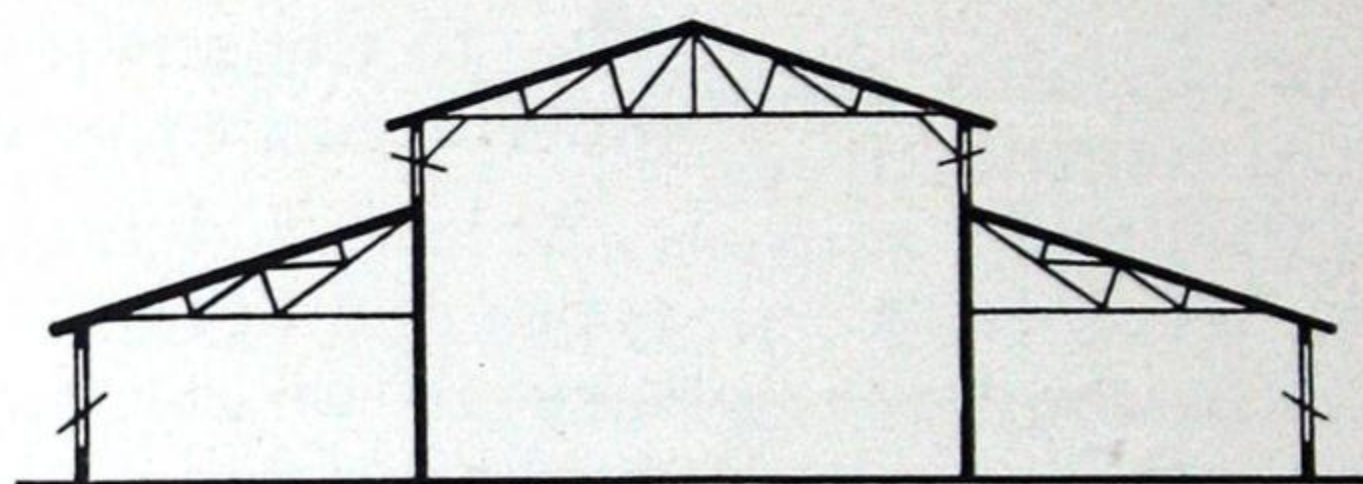
TYPE 2

Widths—40'-48'-50'-56'-60'
 Lengths—Multiples of 2'-0"



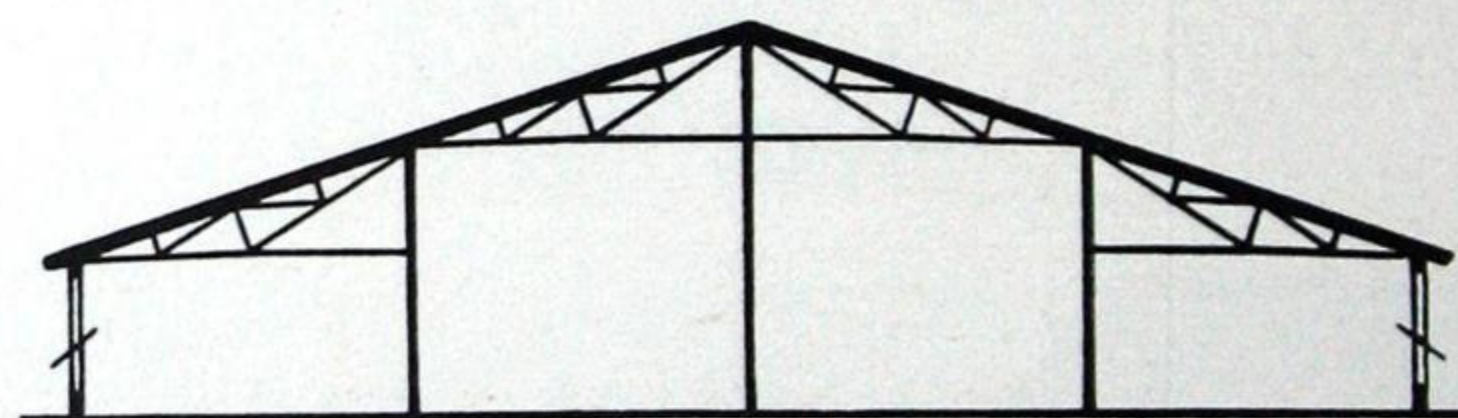
TYPE 3

Widths—56'-60'-64'-68'-72'-76'-80'-84'-88'-96'-
 98'-106'-108'-116'
 Lengths—Multiples of 2'-0"



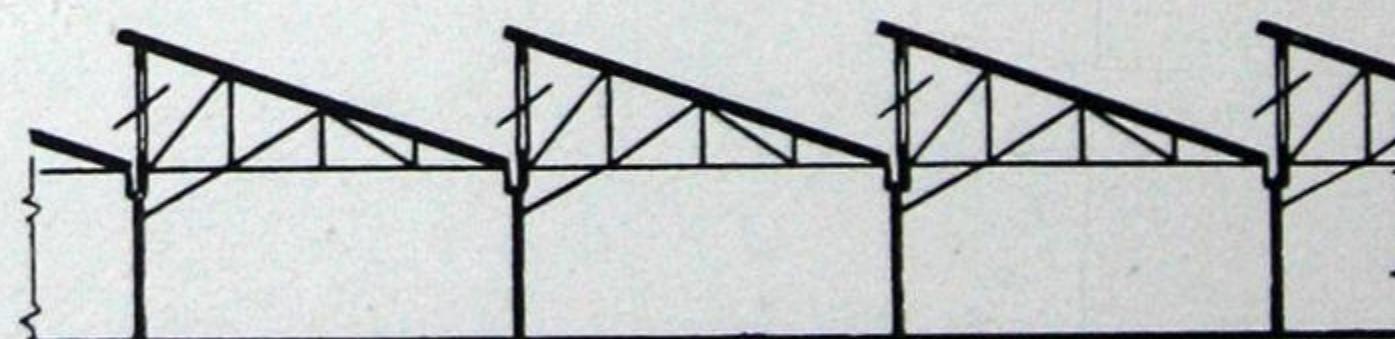
TYPE 3-M

Widths—60'-64'-68'-72'-76'-80'-84'-88'-90'-96'-
 98'-100'-106'-108'-116'
 Lengths—Multiples of 2'-0"



TYPE 4

Widths—80'-100'-112'
 Lengths—Multiples of 2'-0"



SAWTOOTH TYPE

Widths—Any Multiple of 28'-0"
 Lengths—Multiples of 2'-0"

Standard Heights of Sidewalls: 8'-1", 10'-9", 13'-5", 16'-1", 18'-9", 21'-5"
 Standard Curb Heights: 8", 16", 24"

FLAT ROOF TYPES—SERIES “B”

furnished with “Steeldeck” Roofs and Built-up Roofing (page 23)

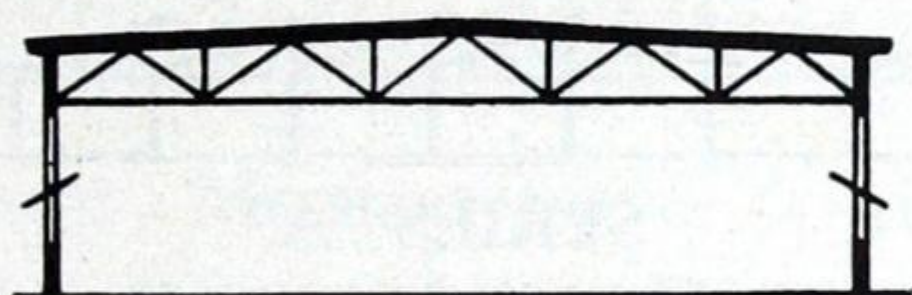
THE flat roof design calls for less roof area, and roofing costs are minimized.

The types of “B” Series are more desirable for wide buildings; they combine greatest headroom with the least cubic content.

This means the elimination of waste overhead space and results in substantial savings in the cost of heating such a building.

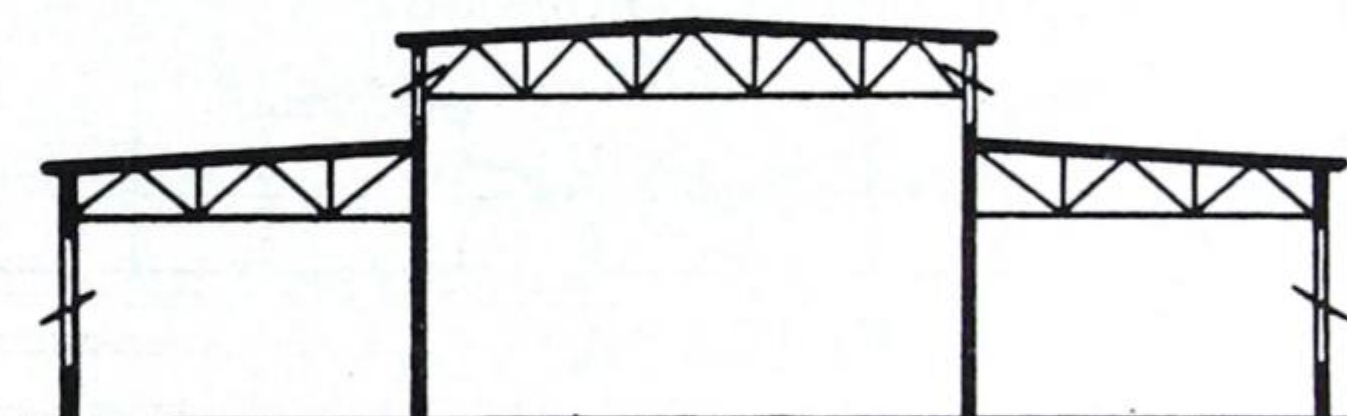
The larger variety of wall heights of Series “B” Buildings offer a greater choice of areas that can be filled with sidewall sash to admit more daylight to the interior.

Series “B” Truscon Buildings with “Steeldeck” Roofs can be *insulated* to any degree to meet every special condition. Built-up roofing waterproofs permanently.



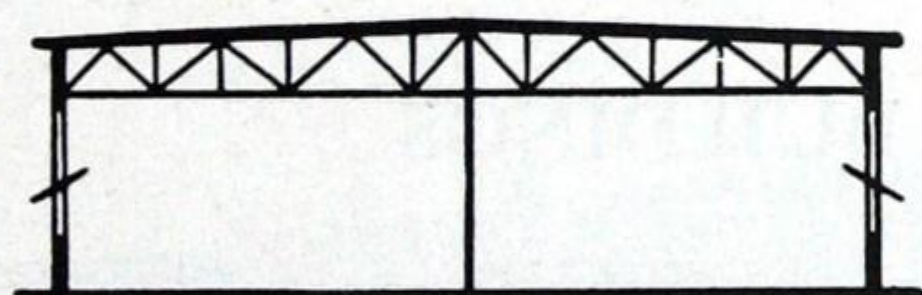
TYPE 1

Widths—20'-24'-28'-32'-36'-40'-44'-48'-50'-52'-56'-60'
Lengths—Multiples of 2'-0"



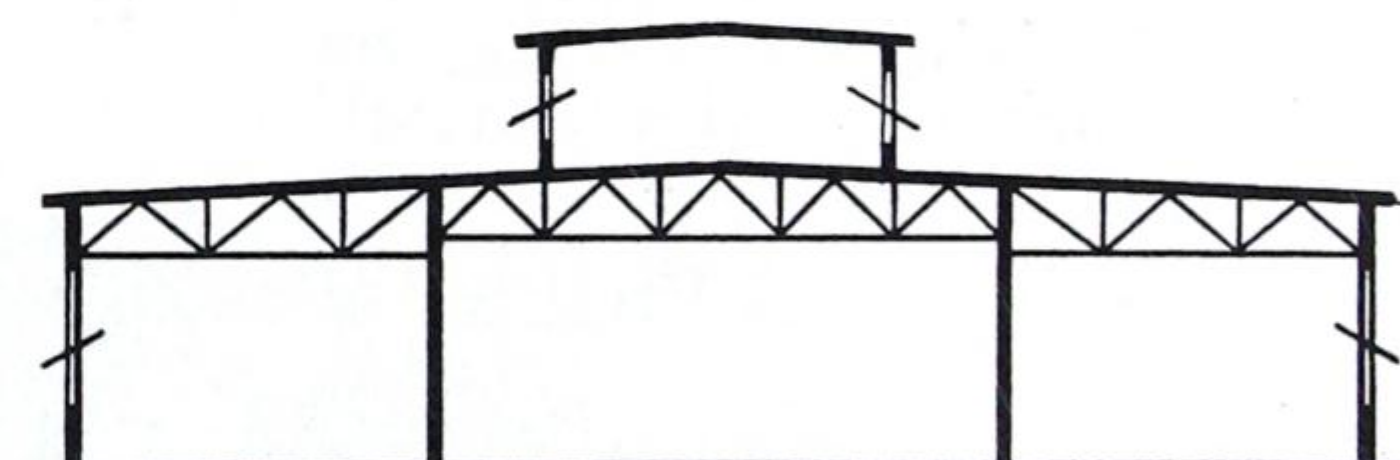
TYPE 3-M

Widths—96'-104'-112'-114'-120'-124'-130'-132'-140'-150'-160'-170'-180'
Lengths—Multiples of 2'-0"



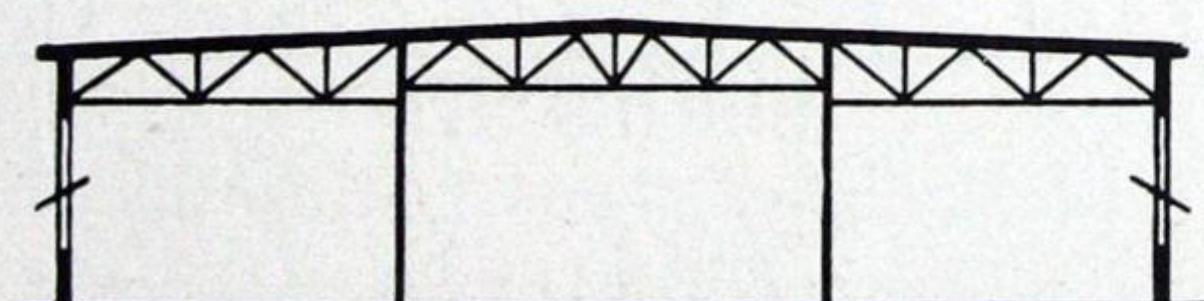
TYPE 2

Widths—40'-48'-56'-60'-64'-80'-100'-120'
Lengths—Multiples of 2'-0"



TYPE 3 (With Lantern)

Widths—64'-68'-72'-80'-84'-88'-90'-96'-106'-116'
Lengths—Multiples of 2'-0"



TYPE 3

Widths—64'-68'-72'-80'-84'-88'-90'-96'-106'-116'
Lengths—Multiples of 2'-0"



TYPE 4

Widths—80'-88'-96'-100'-104'-108'-112'-116'-120'
Lengths—Multiples of 2'-0"

Standard Heights of Side Walls:

11'-6¼", 14'-2¼", 16'-10¼", 19'-6¼", 22'-2¼", 24'-10¼", 27'-6¼", 30'-2¼", 32'-10¼".

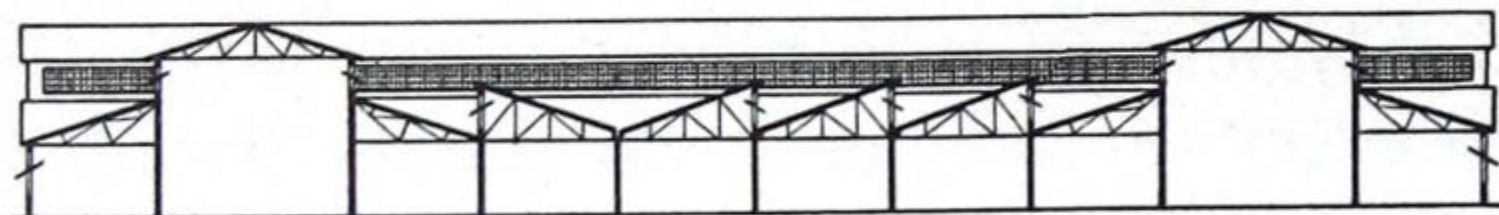
Standard Lantern, 24 feet wide, can be placed on any of the Series “B” Truscon Standard Buildings.

Series "A" and "B" Buildings in Combinations

THE Series "A" and Series "B" Types of Truscon Buildings can be variously grouped. These groups can be any length and any width; considerable variation in height is possible. Standardization permits indefinite extension. Group plans need be completed only as growing needs dictate.

Lanterns may be used for additional daylighting and ventilation. Canopies and lean-tos can be added and may be removed to make way for extensions. The Truscon plan is, therefore, flexible, thus adapting itself to both the present individual needs and possible future requirements.

SERIES "A" TRUSCON BUILDINGS



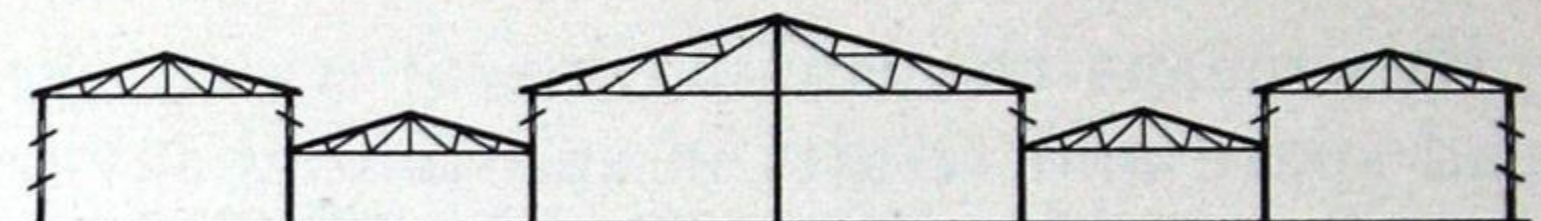
SERIES "A"
Types 3-M and Sawtooth



SERIES "A"
Types 3-M and Sawtooth



SERIES "A"
Type 1, Type 4 (with Lantern)
and Type 3 (with Lantern)



SERIES "A"
Type 1 and Type 2

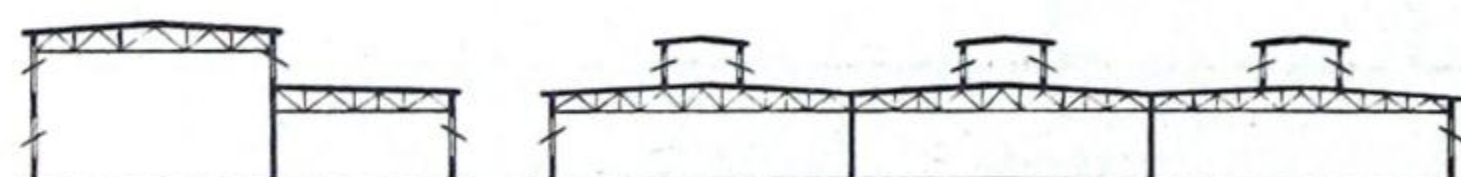


SERIES "A"
Type 1, Lean-to,
Sawtooth and Type 2 (with Lantern)



SERIES "A"
Type 1 (with Lantern), Lean-to and Sawtooth

SERIES "A" AND "B" TRUSCON BUILDINGS



SERIES "B"
Type 1 (with Lean-to)
Type 1 (with Lantern)



SERIES "B"
Type 1, Type 1 (with Lantern) and Type 2



SERIES "B"
Type 1, Lean-to
SERIES "A"
Sawtooth Type



SERIES "B"
Type 1 (with and without Lantern)



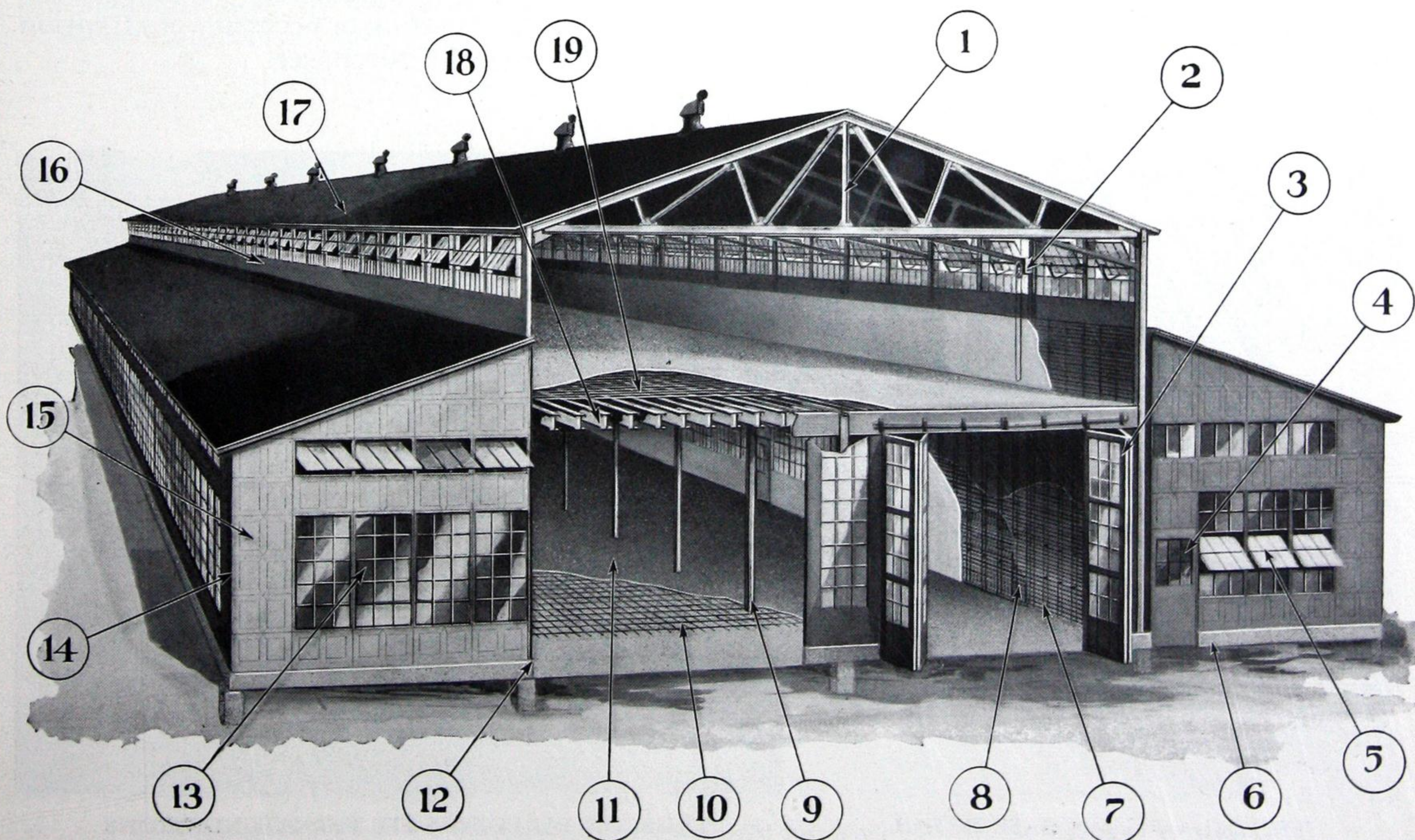
SERIES "B"
Type 4 (with Skylights), Type 3 (with Valley Lantern)
and Type 1



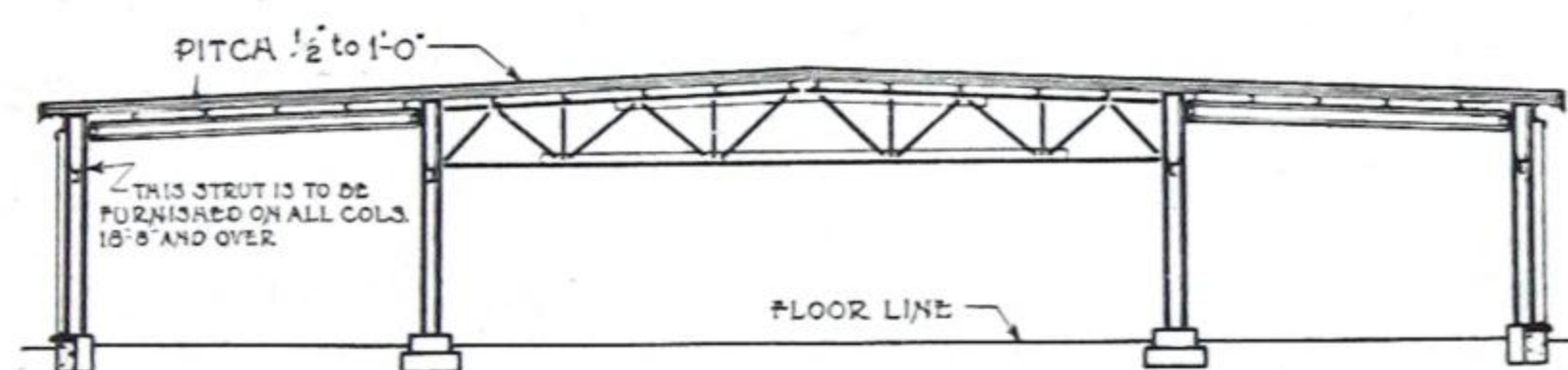
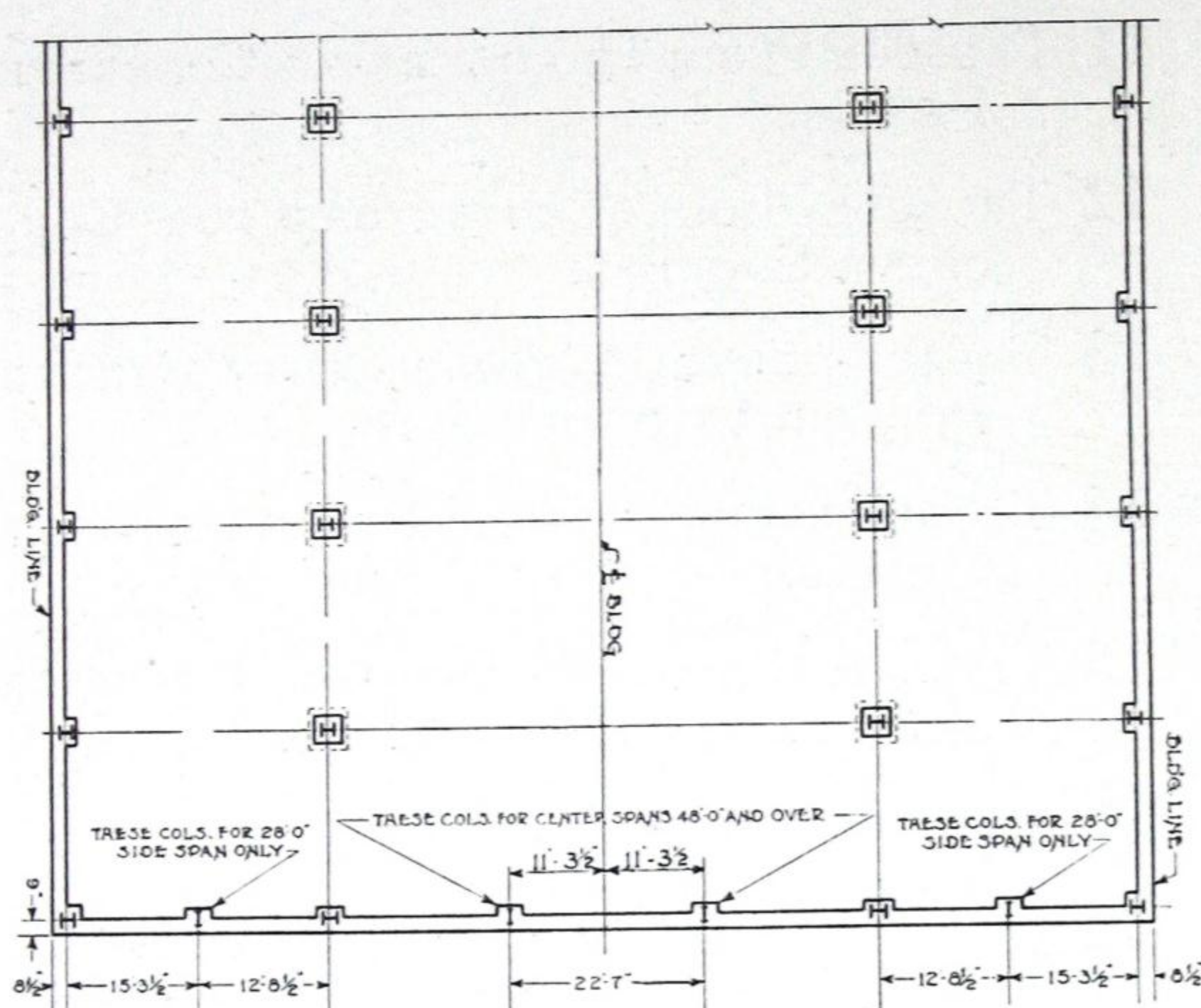
SERIES "B"
Type 3-M, Type 1 and Lean-to
SERIES "A"
Sawtooth Type

Truscon Buildings Are all Truscon Parts

- 1 TRUSCON STANDARDIZED STRUCTURAL STEEL TRUSSES.
- 2 TRUSCON MECHANICAL OPERATORS FOR CONTROLLING SASH VENTILATORS.
- 3 TRUSCON SEAMLESS TUBULAR RAIL STEEL DOORS, FOURFOLD TYPE.
- 4 TRUSCON STANDARD STEEL DOORS, SWING OR SLIDING TYPES, SINGLE OR DOUBLE.
- 5 TRUSCON PROJECTED OR PIVOTED WINDOWS FOR THE OFFICE.
- 6 TRUSCON REINFORCING BARS OF NEW BILLET STEEL FOR CONCRETE.
- 7 TRUSCON STEEL CHANNELS FOR PARTITION STUDDING.
- 8 TRUSCON METAL LATH AND PLASTER PARTITION.
- 9 TRUSCON STEEL COLUMNS.
- 10 TRUSCON WIRE MESH REINFORCING FOR CONCRETE.
- 11 TRUSCON FLOOR HARDENER FOR CONCRETE FLOORS.
- 12 TRUSCON EDGE PROTECTORS FOR CONCRETE CORNERS.
- 13 TRUSCON STEEL WINDOWS WITH CENTER PIVOTED VENTILATORS.
- 14 TRUSCON COPPER STEEL STANDARD WALL PANELS.
- 15 TRUSCON STEEL PAINTS FOR EXTERIOR AND INTERIOR MAINTENANCE.
- 16 TRUSCON SPECIAL PUTTY FOR GLAZING STEEL WINDOWS.
- 17 TRUSCON INTERLOCKING STEEL ROOFING OR "STEELDECK" ROOFS
- 18 TRUSCON STEEL JOISTS (Truscon Flore-tyle Construction may be also used).
- 19 TRUSCON HY-RIB LATH FOR REINFORCING AND FORMING CONCRETE FLOOR SLABS.



Foundation Details Are Furnished by Truscon



• CROSS SECTION •

TYPICAL FOUNDATION PLAN

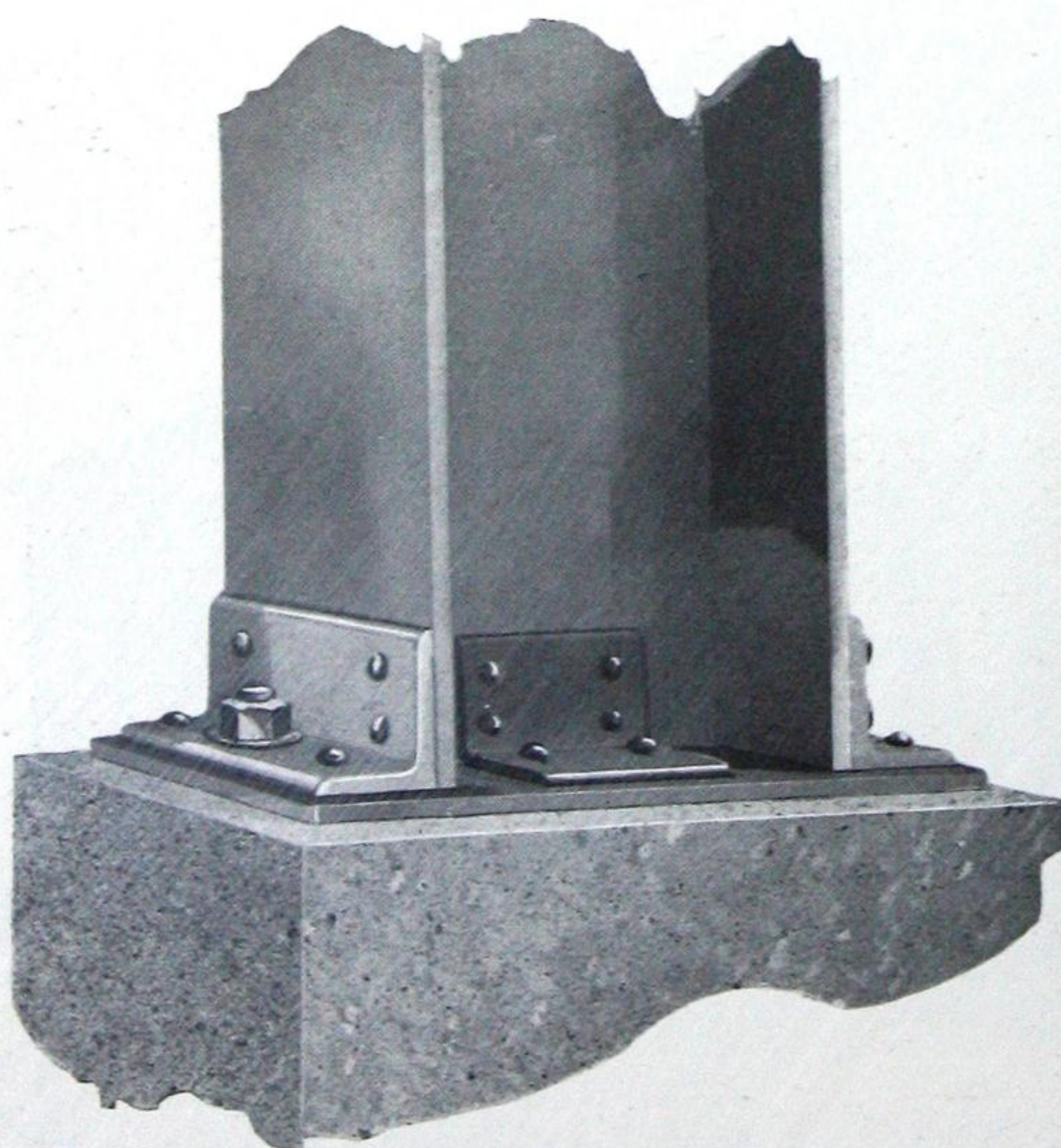
PERMANENT rigidity of a building depends on its foundations. It is natural and practical, therefore, that the Truscon Steel Company furnish the foundation details for Truscon Buildings.

Immediately following the completion of contract arrangements, studies are made of local conditions and foundation plans are prepared. Truscon engineers are thoroughly familiar with the normal conditions which must be considered in foundation design in any part of the country.

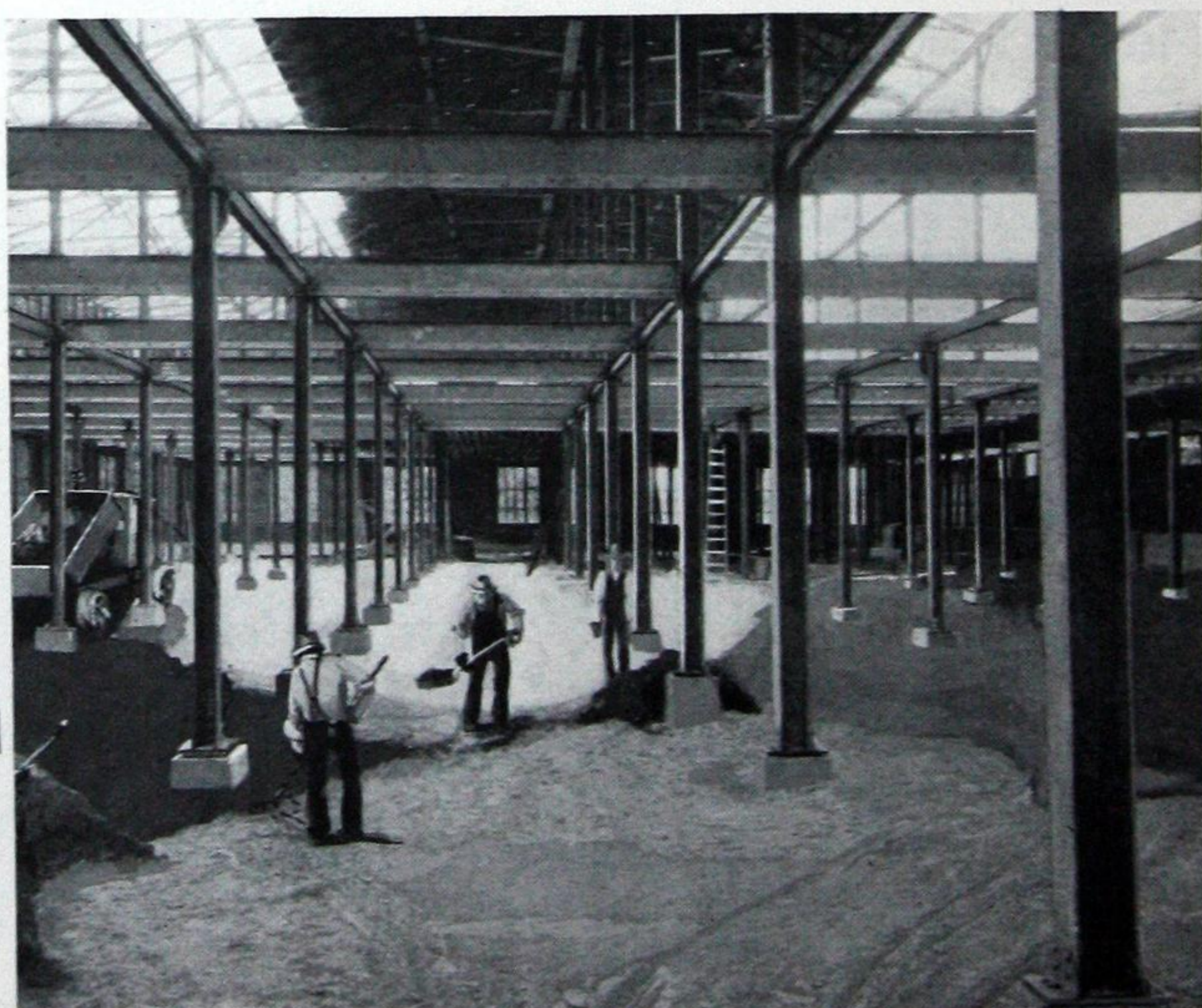
The work of laying the foundation commences at the same time as the work of assembling the building parts in the shop. The actual laying of the foundation is done by the customer or by a reputable contractor selected by and responsible to him.

By the time the building is shipped, the foundation has been finished and is ready to receive the building for which it has been specially designed.

Thus, Truscon's building plan functions practically and progressively to completion without loss of motion or necessity of attention on the part of the purchaser.



TYPICAL COLUMN BASE DETAIL



TRUSCON BUILDINGS FIT THE FOUNDATIONS

Floors Reinforced and Hardened for Permanency

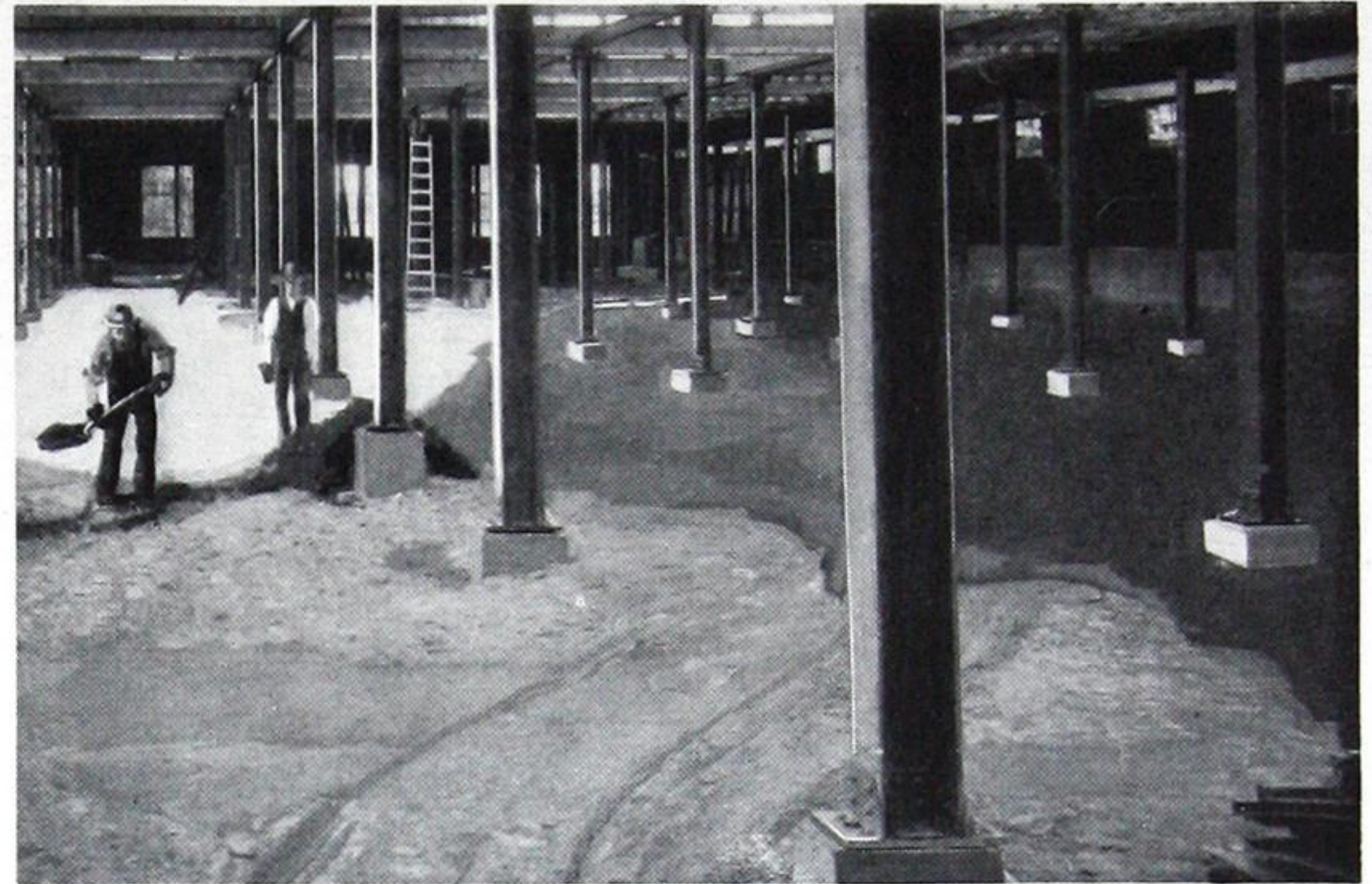
EXTRA strength is built into the concrete floors of Truscon Buildings by the use of Truscon reinforcing materials. The service required of floors in industrial plants is often extraordinarily rigorous. Continual impacts from the movement of materials, the shifting pressures of great weights of equipment and material, often heavy traffic along trucking lanes,—all these influences unite in straining, scuffing and chipping the floor.

Truscon Wire Mesh safeguards the concrete against the development of cracks and holes and provides against breaking, even if soft spots do occur in the subgrade.

Truscon Floor Hardeners impregnate the surface against abrasions.

Truscon Waterproofing Paste protects foundations and floors against deterioration from excessive moisture.

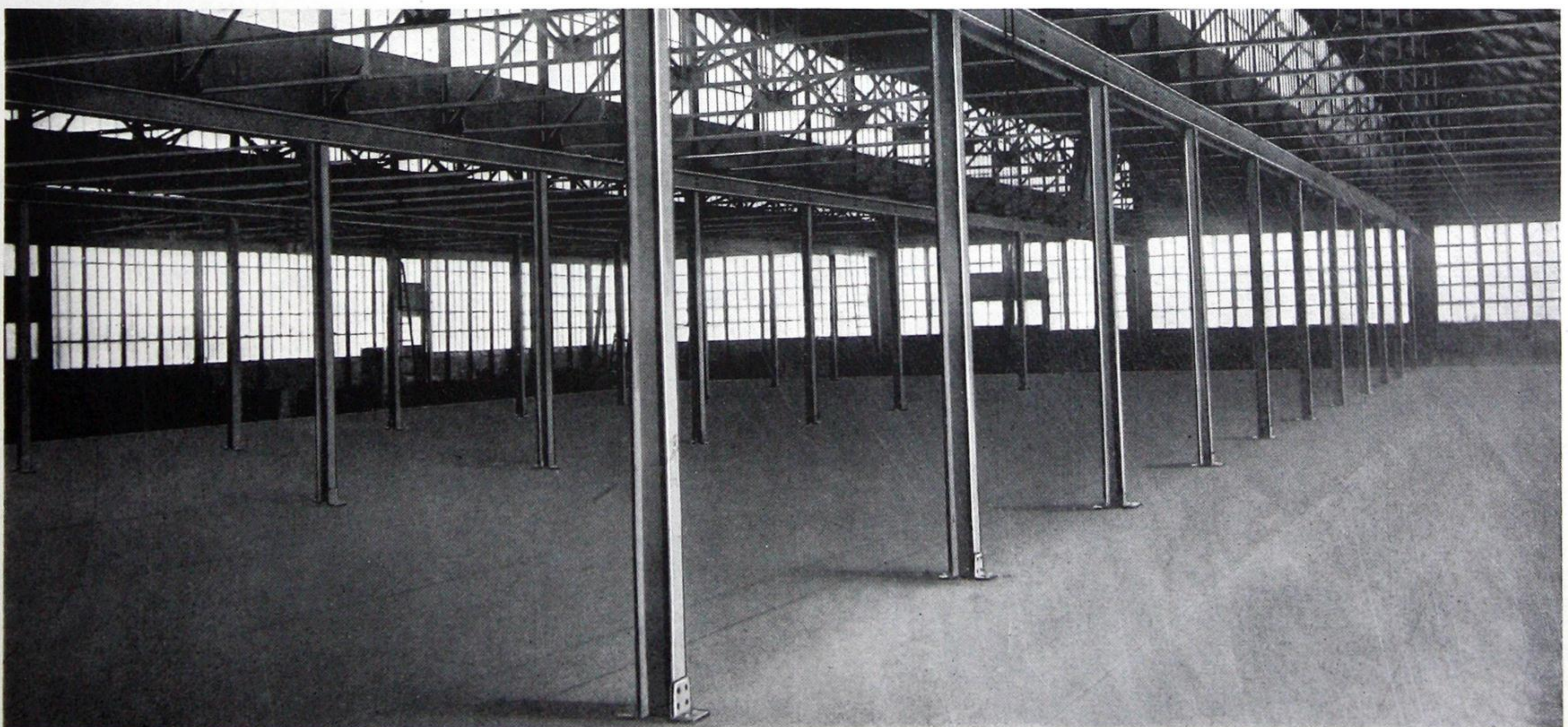
Supported Floor Constructions that will best meet individual conditions are designed and recommended by an experienced staff of Truscon Engineers.



PREPARING THE SUBGRADE FOR FLOOR

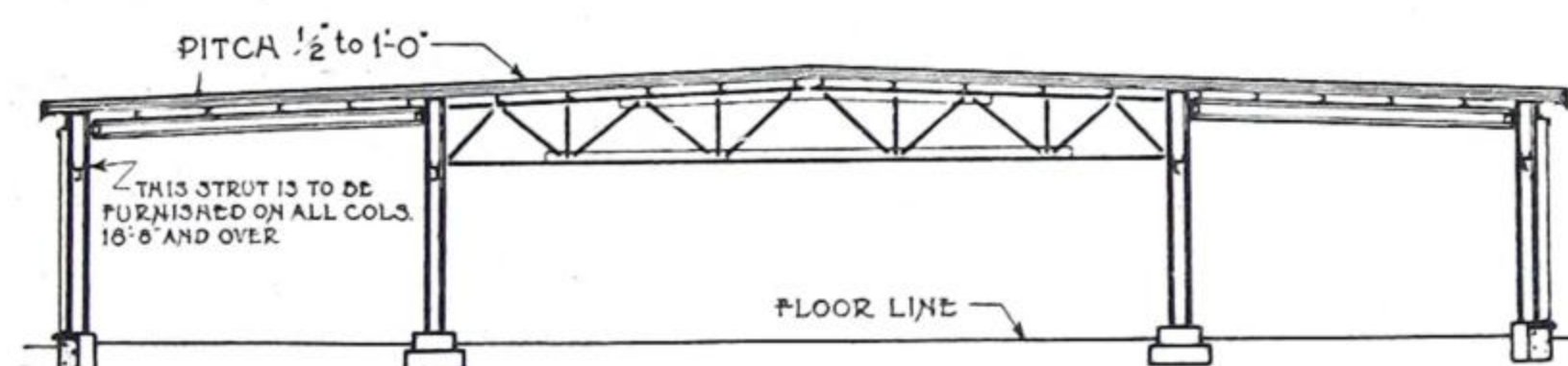
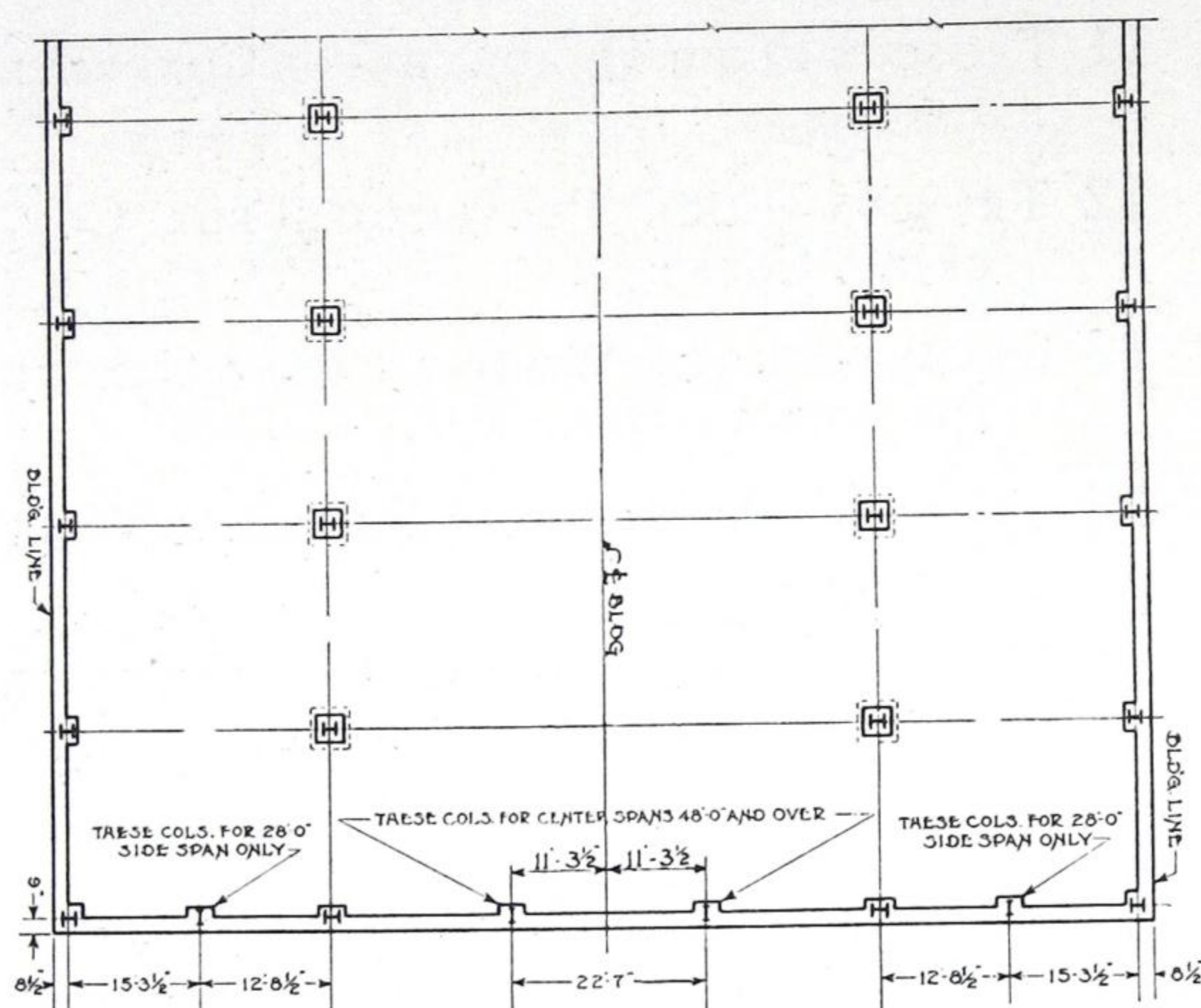


LAYING FLOOR OF CONCRETE AND WIRE MESH



CEMENT SURFACE IS IMPREGNATED AND HARDENED WITH TRUSCON FLOOR HARDENERS

Foundation Details Are Furnished by Truscon



- CROSS SECTION -

TYPICAL FOUNDATION PLAN

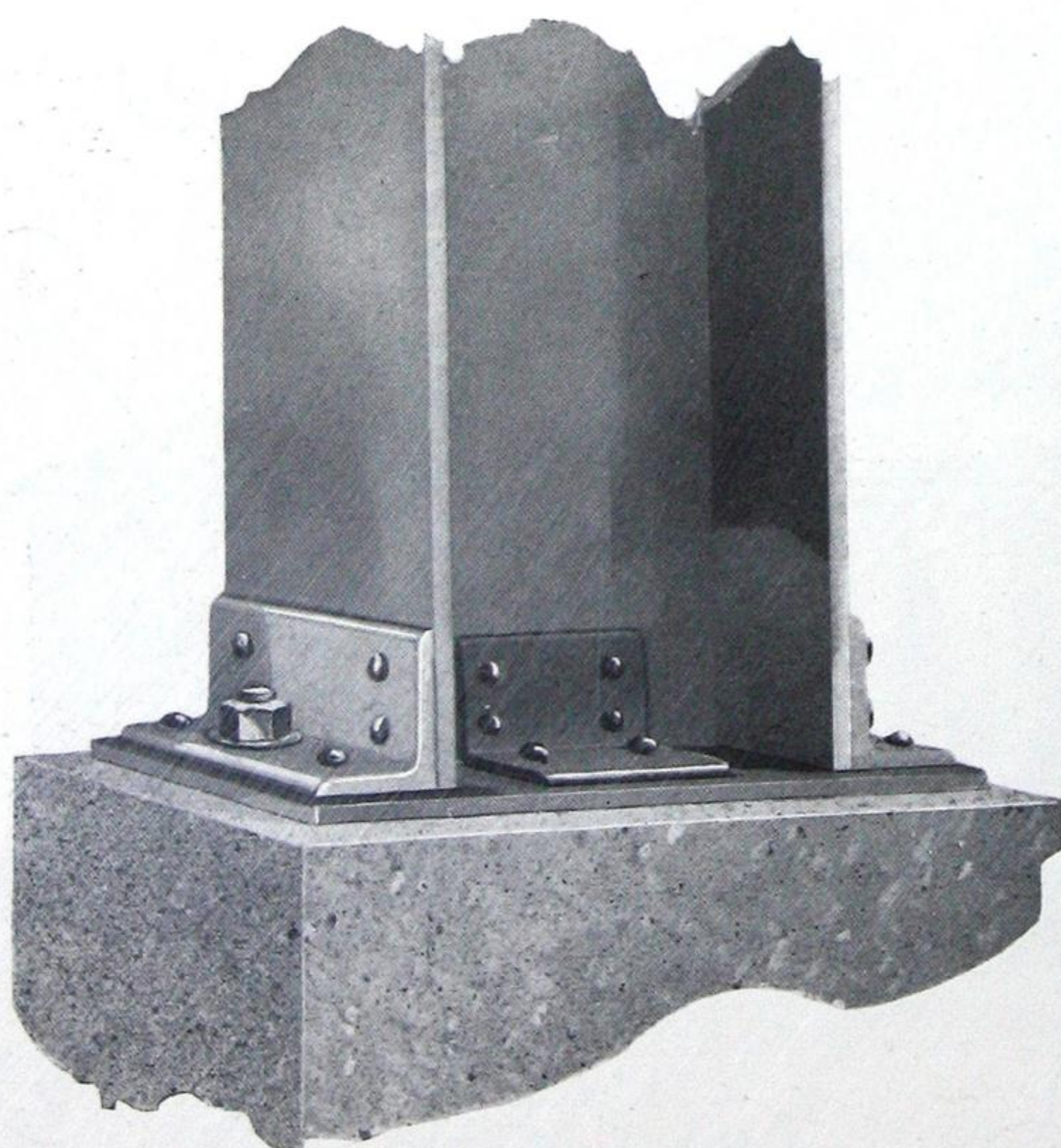
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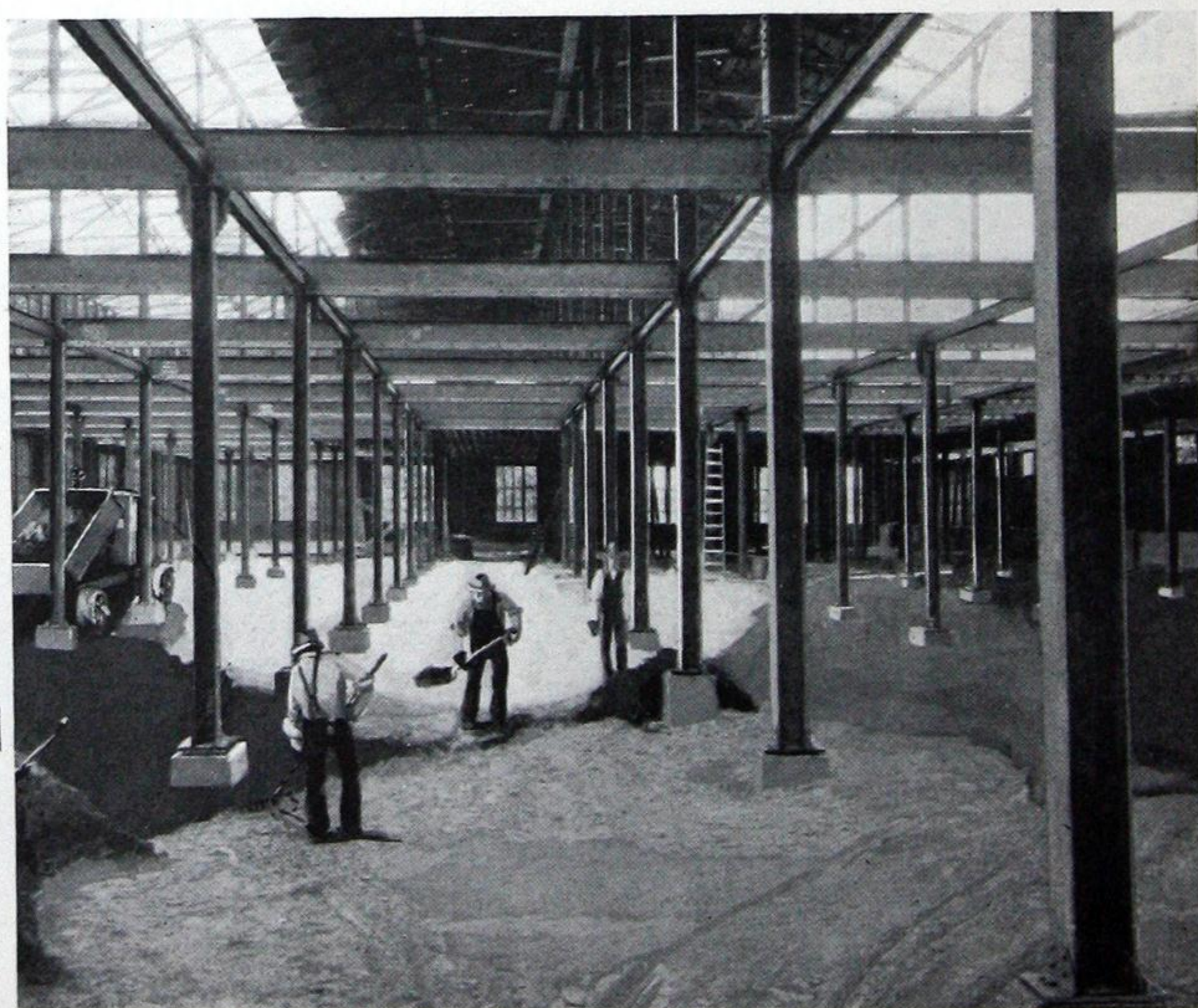
The work of laying the foundation commences at the same time as the work of assembling the building parts in the shop. The actual laying of the foundation is done by the customer or by a reputable contractor selected by and responsible to him.

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Truscon Wire Mesh safeguards the concrete against the development of cracks and holes and provides against breaking, even if soft spots do occur in the subgrade.

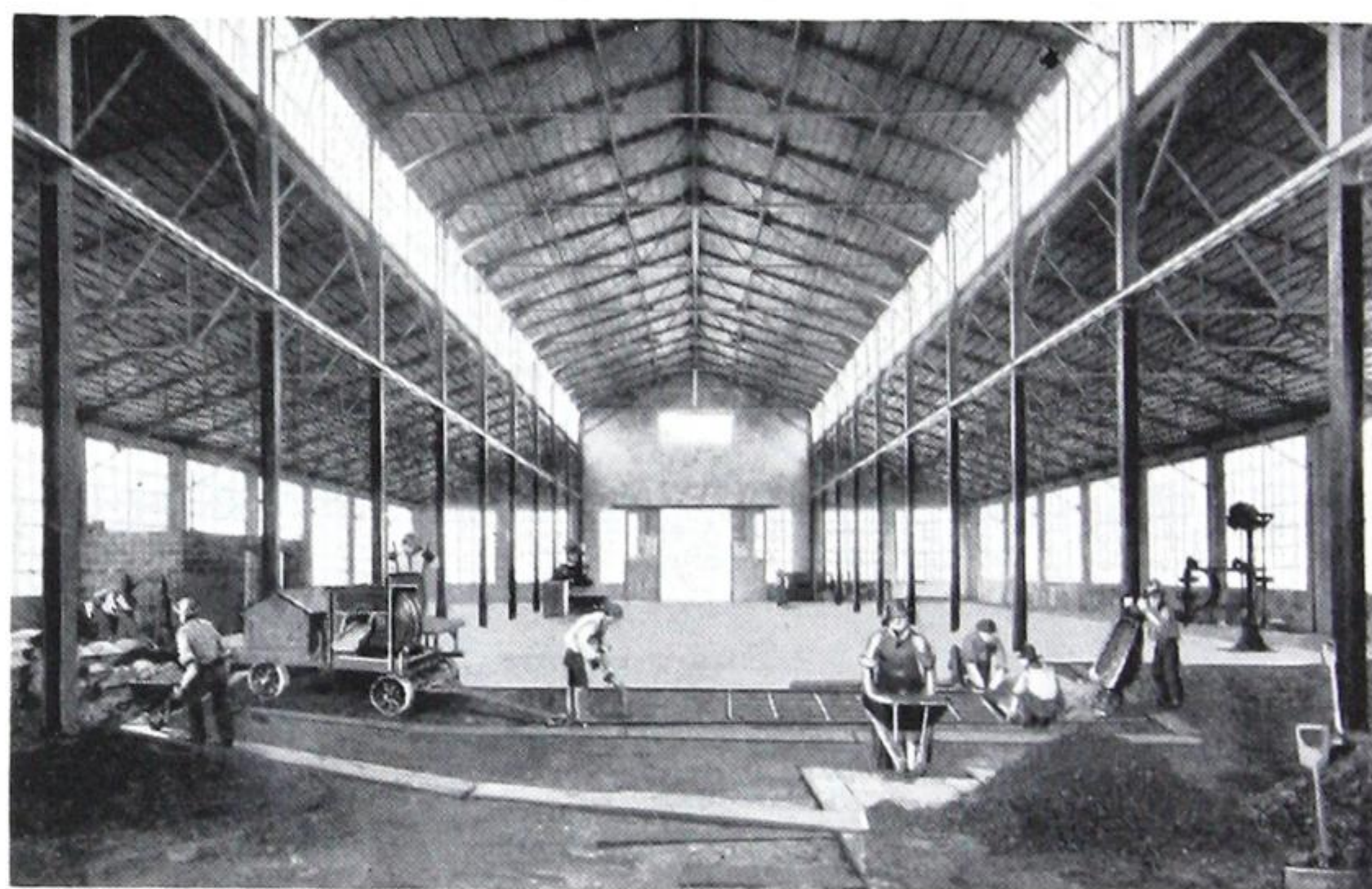
Truscon Floor Hardeners impregnate the surface against abrasions.

Truscon Waterproofing Paste protects foundations and floors against deterioration from excessive moisture.

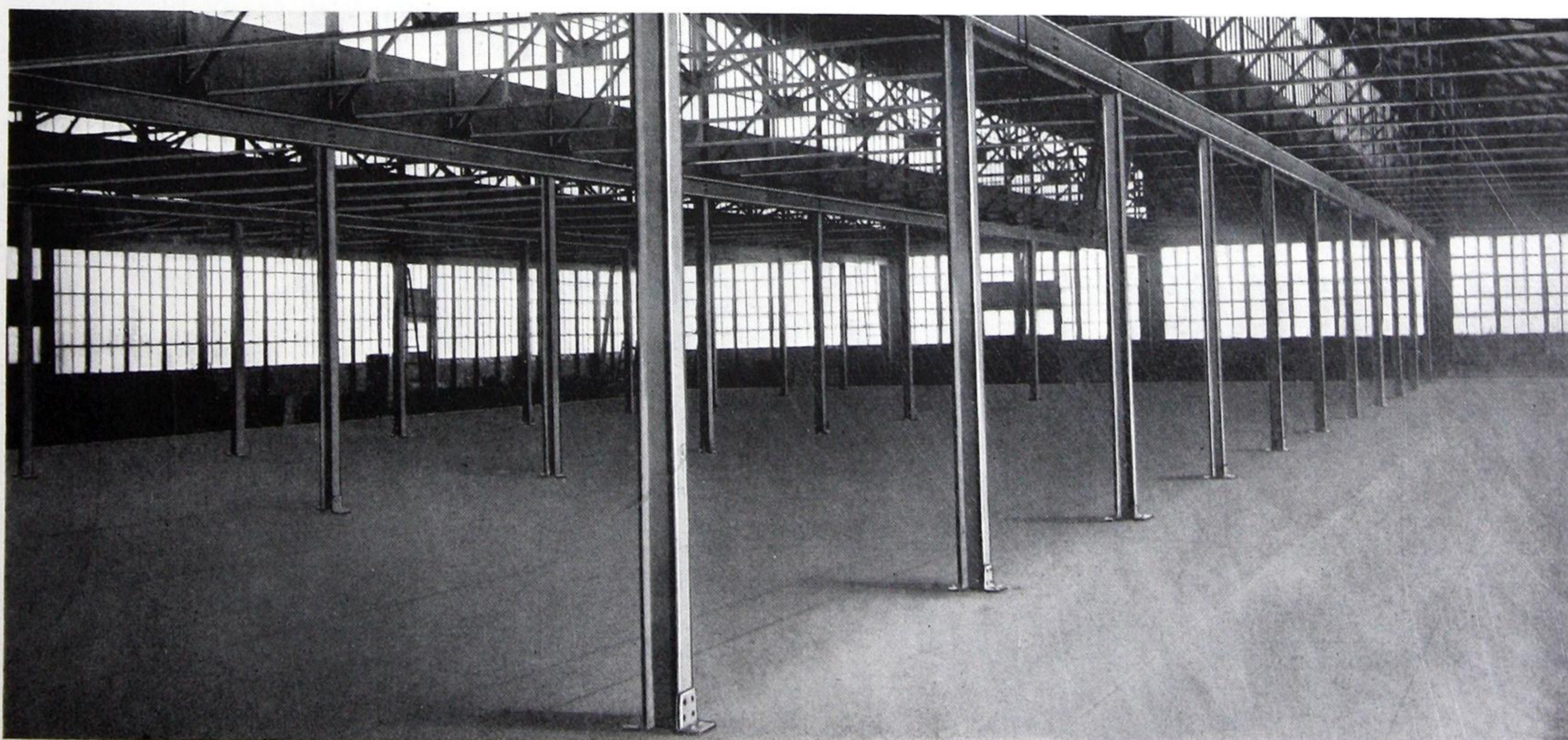
Supported Floor Constructions that will best meet individual conditions are designed and recommended by an experienced staff of Truscon Engineers.



PREPARING THE SUBGRADE FOR FLOOR



LAYING FLOOR OF CONCRETE AND WIRE MESH



CEMENT SURFACE IS IMPREGNATED AND HARDENED WITH TRUSCON FLOOR HARDENERS

Strong and Economical Supported Floor Systems



FIG. 1. TRUSCON ROUND RIB-BAR



FIG. 2. TRUSCON SQUARE RIB-BAR

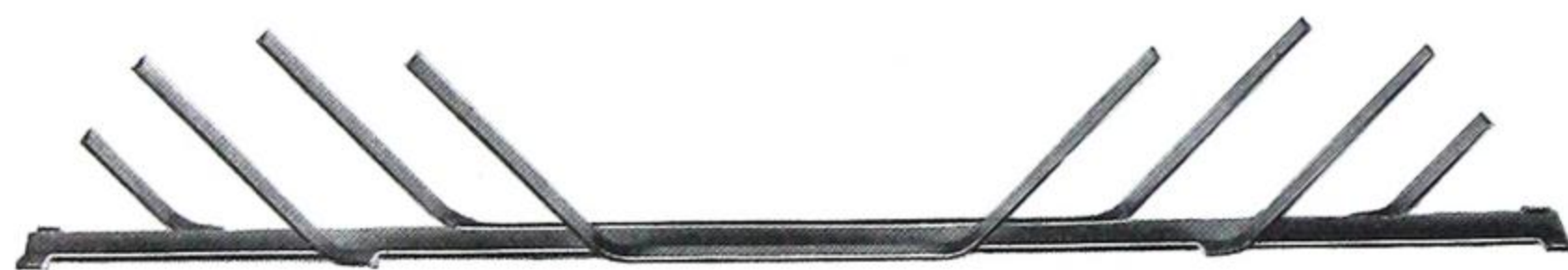


FIG. 3. KAHN TRUSSED BAR

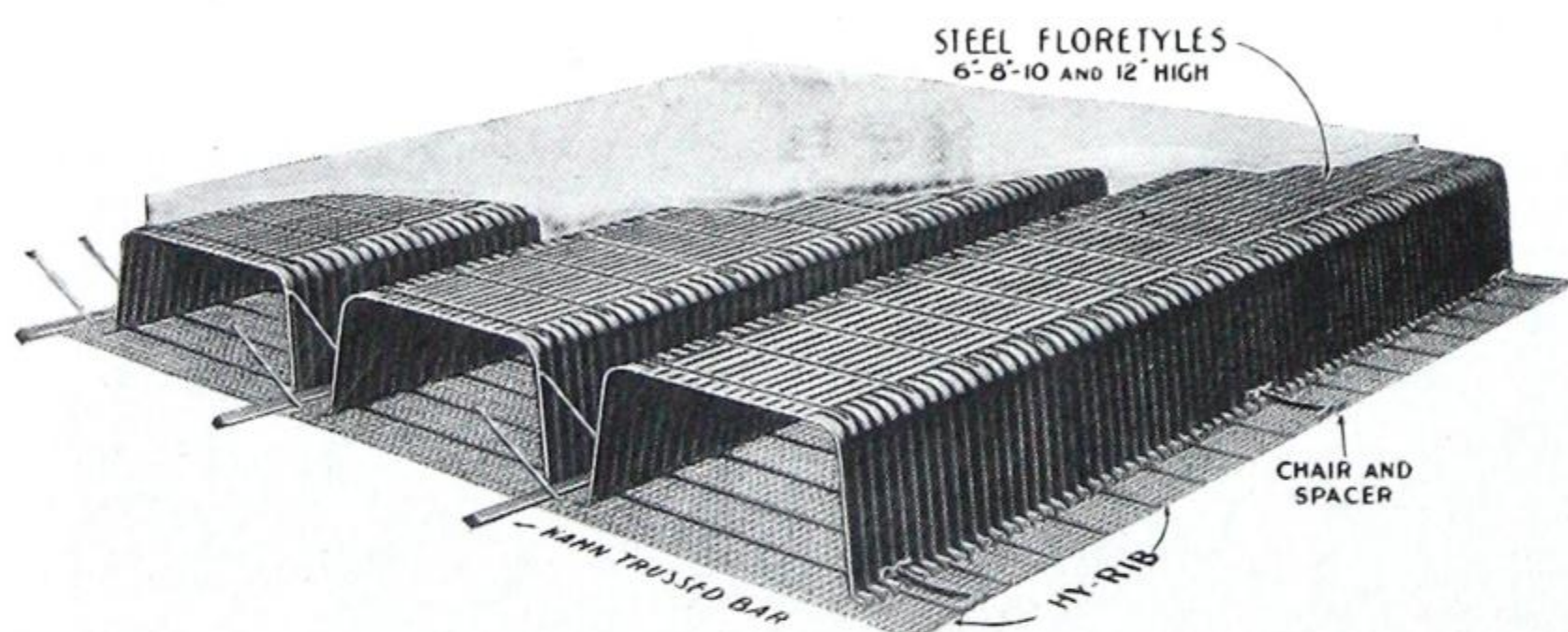


FIG. 4. RIBBED FLORETYLE CONSTRUCTION

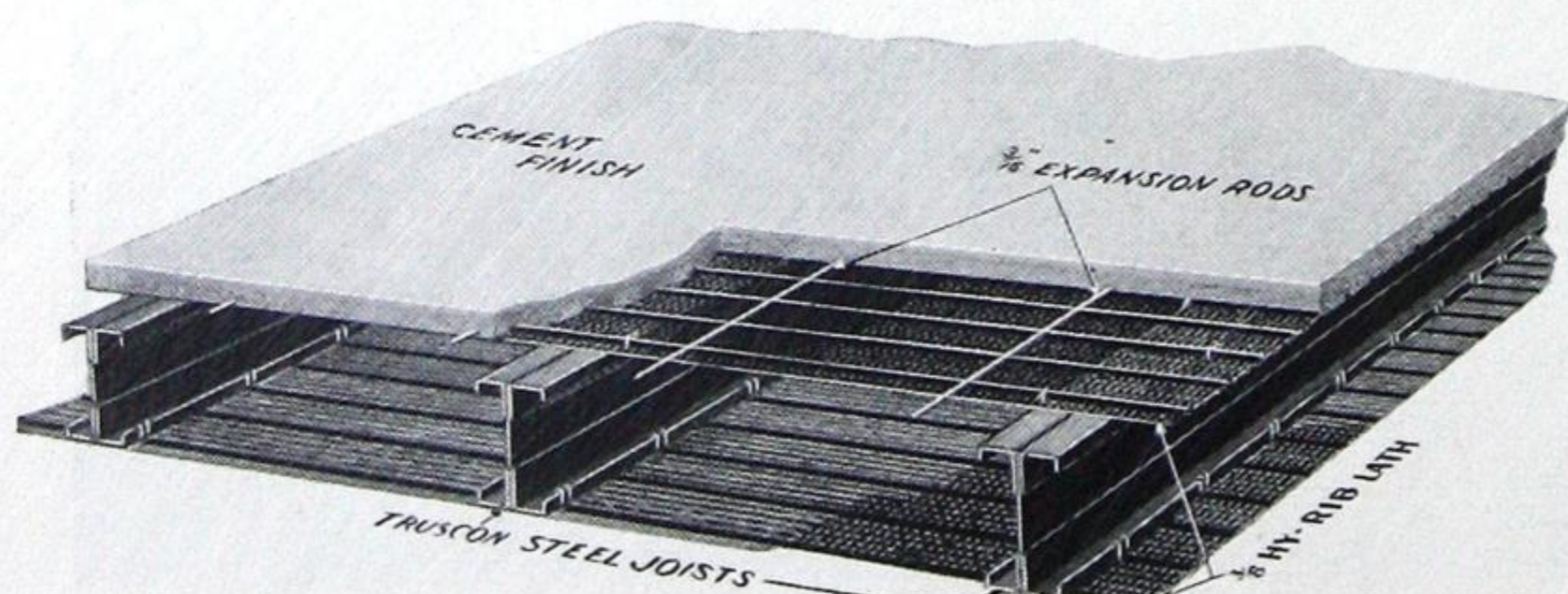


FIG. 5. STEEL JOIST CONSTRUCTION

WHERE supported floors are required Truscon supplies the most practical, economical type of permanent floor construction.

Truscon Rib-Bars (Fig. 1 and Fig. 2) for reinforced concrete are special rolled sections of highest grade new billet steel. A series of cross ribs provides a secure grip on the concrete.

Kahn Trussed Bars (Fig. 3) have a record of successful use in over fifty thousand structures in all parts of the world. Exceptional bond to the concrete results from their unit construction.

Truscon Floretyle Construction (Fig. 4.) develops economy of concrete and great savings in weight. It consists of rows of specially formed steel floretyles separated by reinforced concrete joists and covered with a top slab of concrete.

Truscon Steel Joist Construction (Fig. 5) is an economical floor construction for supporting relatively light loads. It is fire-safe, light in weight and quickly built.

Truscon Edge Protectors (Fig. 6) for reinforcing and protecting exposed concrete corners, prevent chipping and cracking.

Truscon Wire Mesh (Fig. 7) doubles the life of the concrete floor. It binds concrete slabs in a solid granite-like unit that provides security against cracks and resists deterioration.



FIG. 6. EDGE PROTECTOR FOR CONCRETE CORNERS

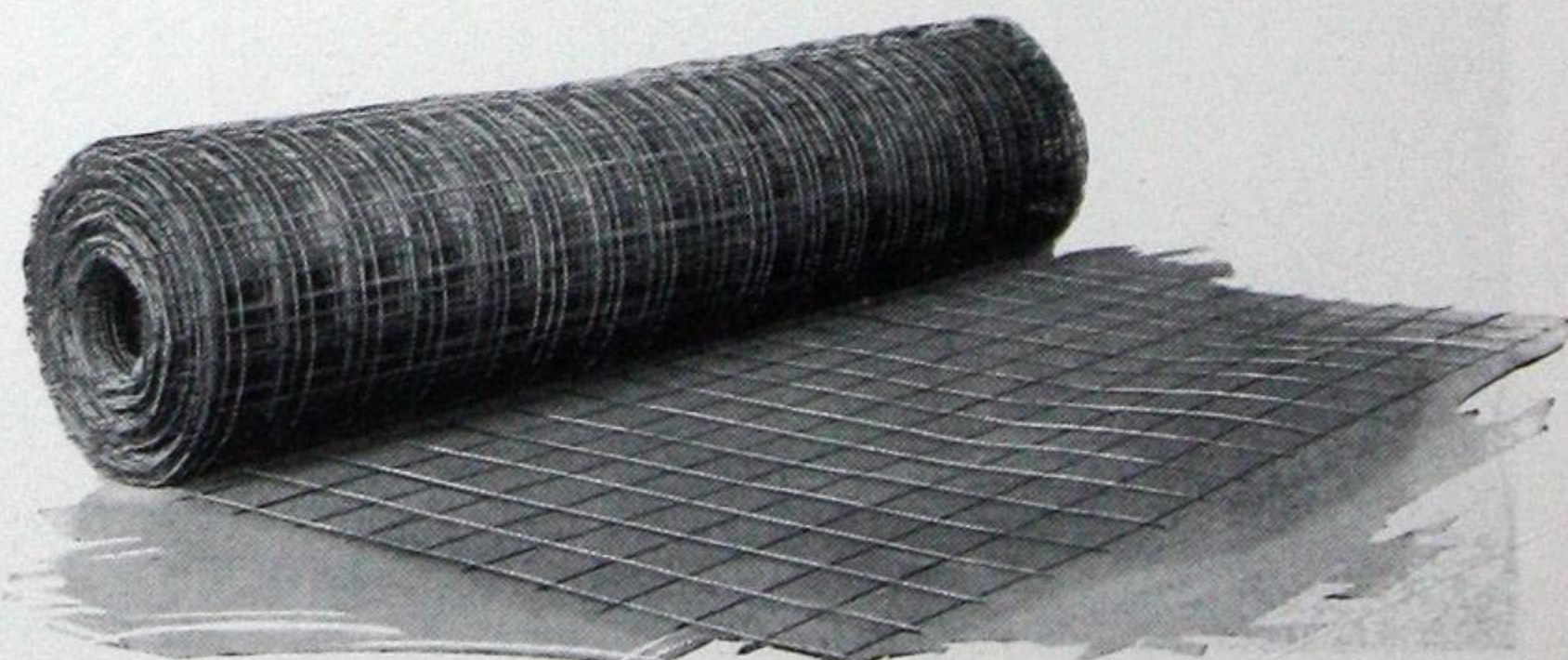


FIG. 7. WIRE MESH IN ROLLS OR FLAT SHEETS

Standardized Trusses Provide Rigid Roof Support

NOWHERE throughout the whole Truscon line are the benefits of standardization more notable than in the production of Truscon Trusses. They are the practical execution, on a volume production basis, of the most modern engineering designs. Correct designing provides proper strength for supporting superimposed loads as well as the weight of the roof.

Truscon truss engineering is precise. The trusses are designed and detailed to develop the required strength and rigidity without excess weight—to simplify shop labor—and to utilize interchangeable structural posts and gusset plates. The well known principles of simplification have been so intensively applied to the study of truss design that these building units are marketed at a very low price.

Truscon standards are established to secure the economies of volume production for those sizes and types of building units which adapt themselves best to the greatest number of uses. Wherever feasible these standards should be adhered to for the sake of economy and quick delivery.

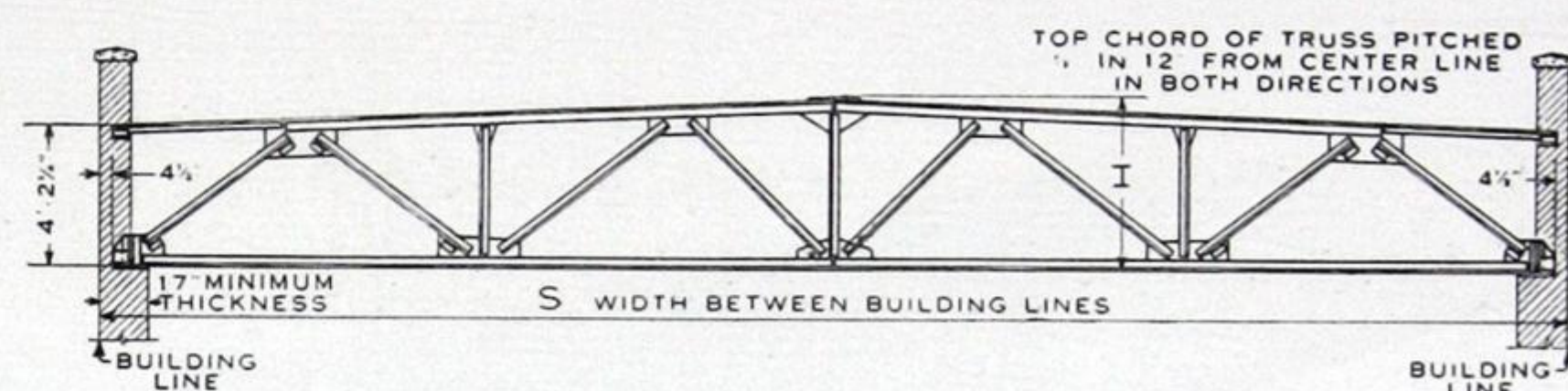


FIG. 5. CENTER SPAN TRUSS

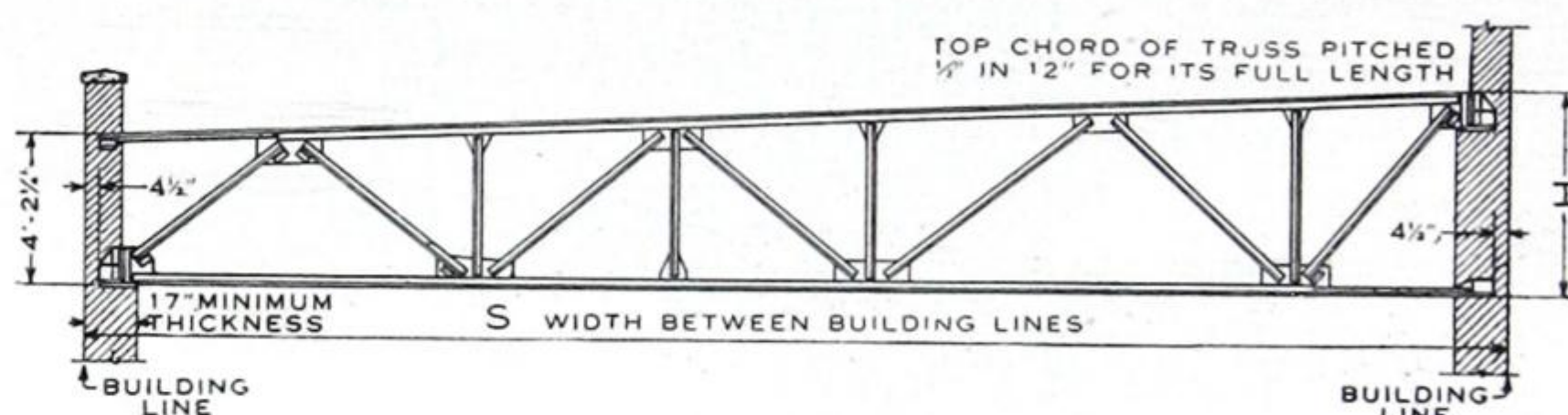


FIG. 6. SIDE SPAN TRUSS

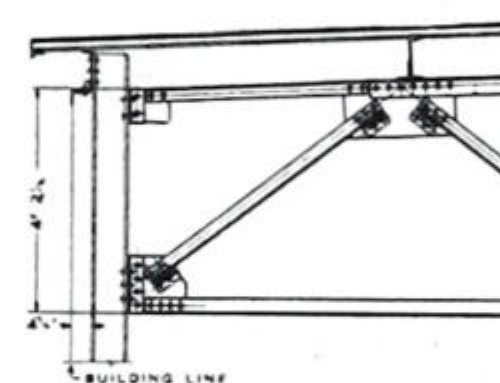


FIG. 7.
TRUSS SUPPORTED
ON STRUCTURAL
STEEL COLUMNS

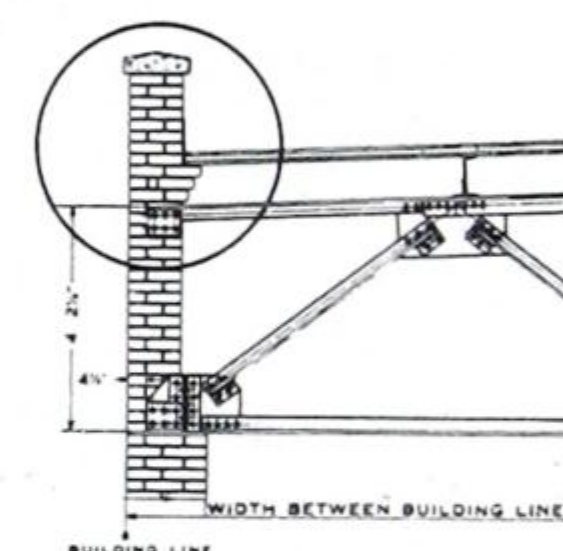


FIG. 8.
DETAIL OF
PARAPET WALL

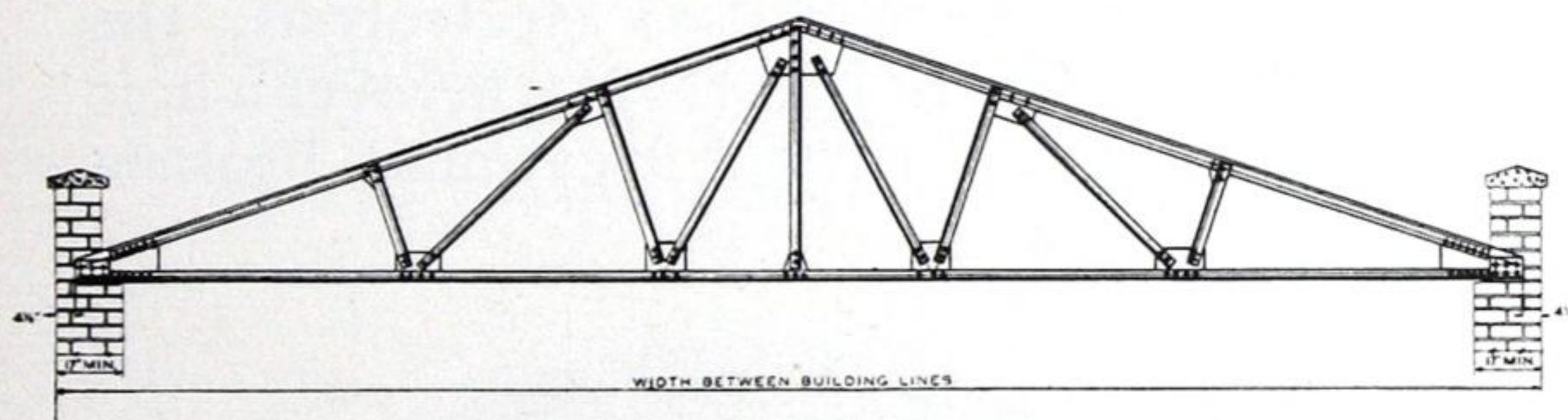


FIG. 1. CLEAR SPAN STYLE "A" TRUSS

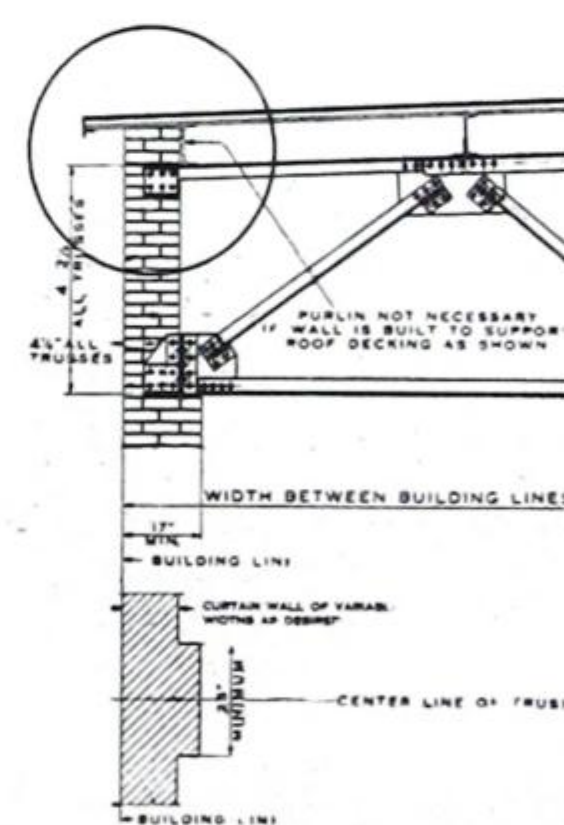


FIG. 9.
DETAIL OF WALLS AND PILASTERS REQUIRED
(IN CIRCLE) DETAIL OF PROJECTING EAVES
(CENTER) SECTIONAL VIEW THROUGH BEARING OF TRUSS
(AT BOTTOM) PLAN VIEW OF BEARING FOR TRUSS

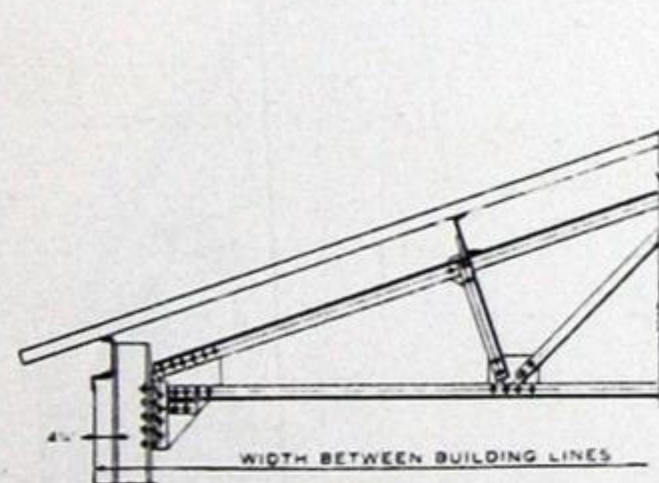


FIG. 2.
STYLE "A" TRUSS
SUPPORTED ON STRUCTURAL
STEEL

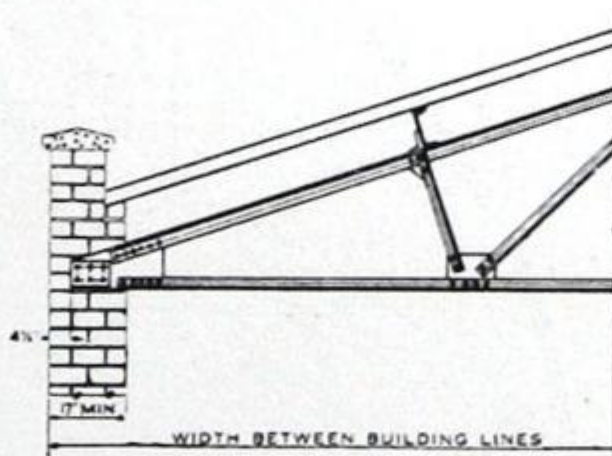


FIG. 3.
STYLE "A" TRUSS
SUPPORTED ON MASONRY
WALLS WITH PARAPET

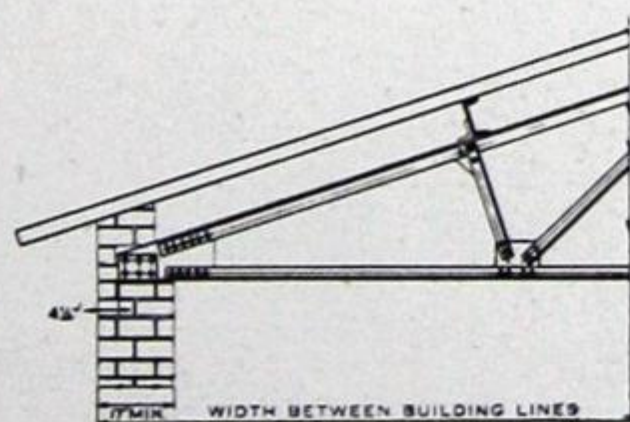


FIG. 4.
STYLE "A" TRUSS
ON MASONRY WALLS WITH PROJECTING EAVES

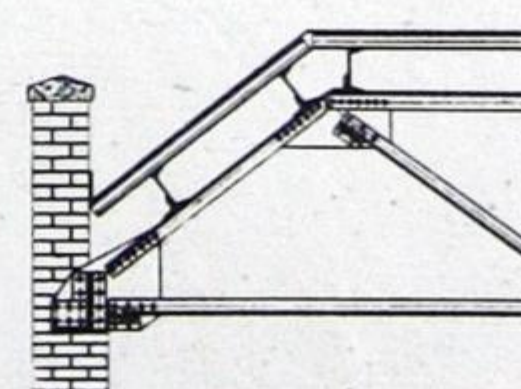


FIG. 10.
SLOPING END TRUSS
WITH PARAPET WALL

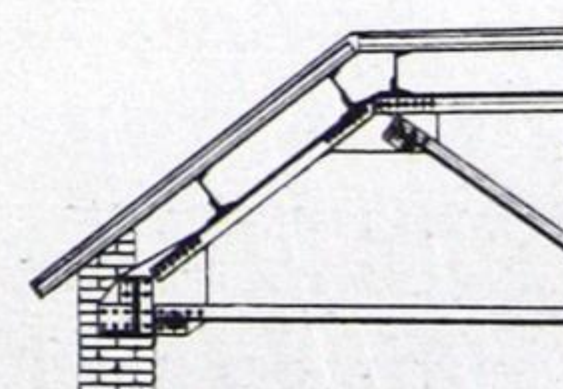


FIG. 11.
SLOPING END TRUSS
WITH PROJECTING EAVES

Truscon Interlocking Plate Type Roofs

For Pitched Roofs, Series "A"
Truscon Buildings

(PAGE 14)

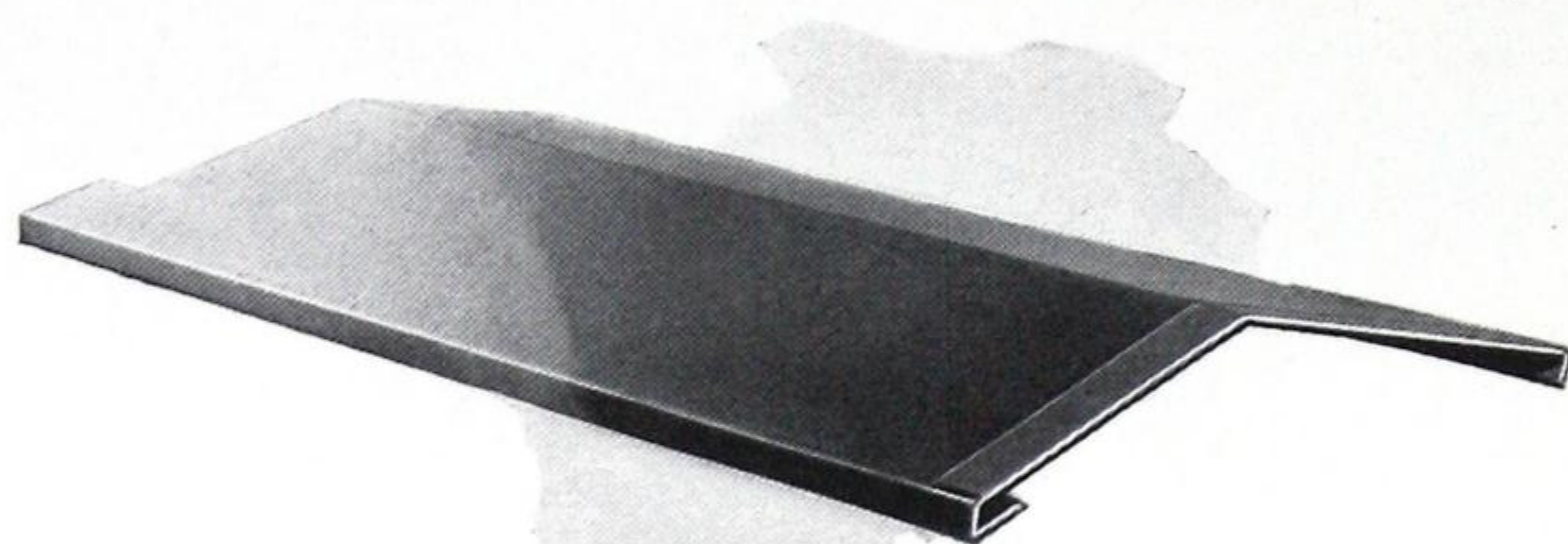


FIG. 1.

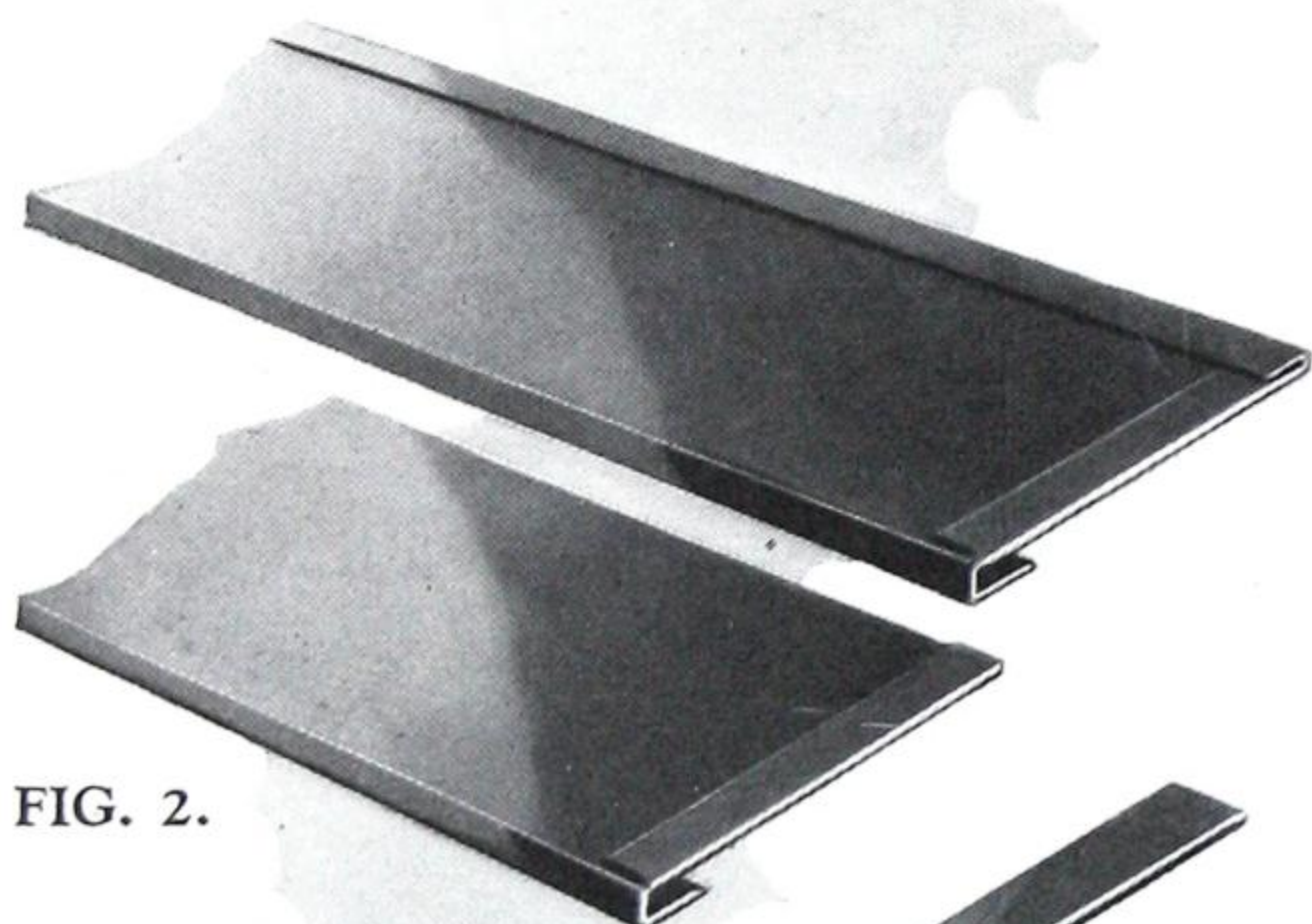


FIG. 2.

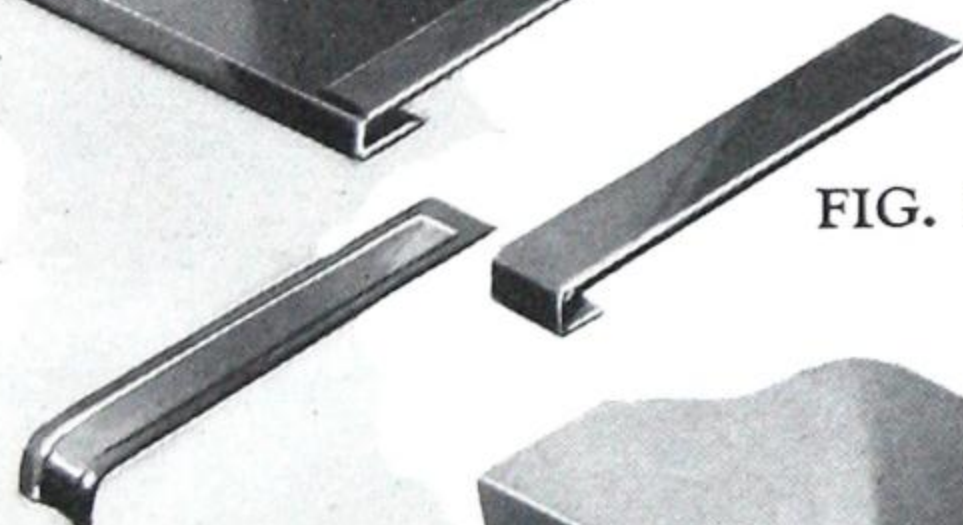


FIG. 3.

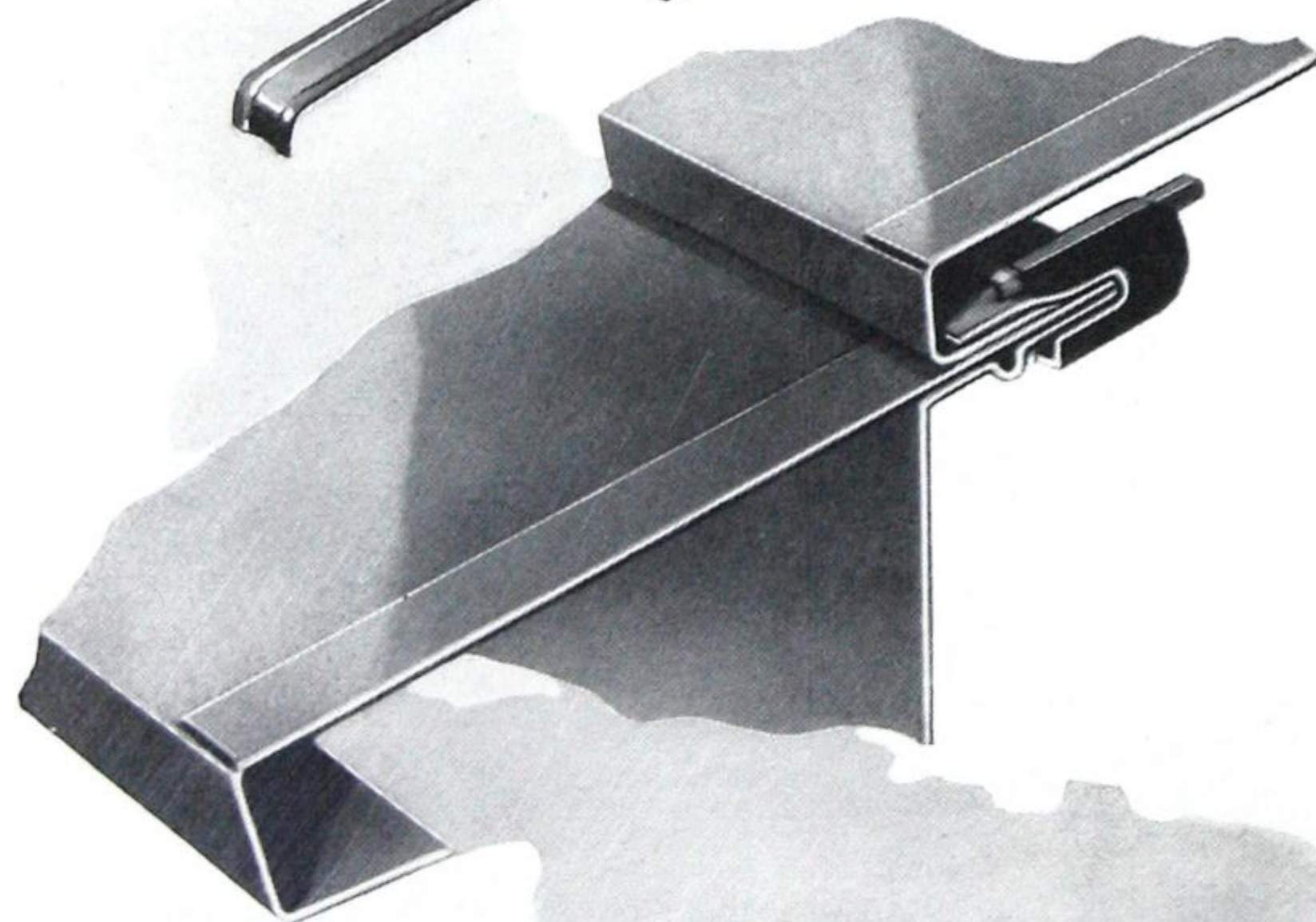


FIG. 4.

FIG. 1. RIDGE PLATE

FIG. 2. EAVE PLATE AND
INTERMEDIATE PLATE

FIG. 3. END SEAM STRIP

FIG. 4. WEATHERTIGHT
JOINT AT EAVES

FIG. 5. INTERLOCKING ROOF
IS QUICKLY LAID

FOR pitched roofs, the Truscon Interlocking Type Roof is strong and rigid, watertight and quickly laid. This roof is safe and rust-resisting, for it is built of interlocking plates of 18 gauge copper steel. These plates are fabricated sections formed and reinforced to support specified roof loads. End seams are covered with weathertight strips.

The Truscon Interlocking Type Roof is securely fastened to the trusses by means of a special clip from beneath. There are no holes punched through the roof-sheets, so there are no bolt or rivet heads to hold moisture and encourage early decay.

The Truscon Interlocking Roof is strong but without excessive weight. In fact, the light weight construction permits great savings in the cost of supporting members.

Its resistance to corrosion is integral instead of being the result of a surface treatment with another metal that causes electrolysis, the cancer which eats and destroys wherever a hole is punched or the surface treatment broken.

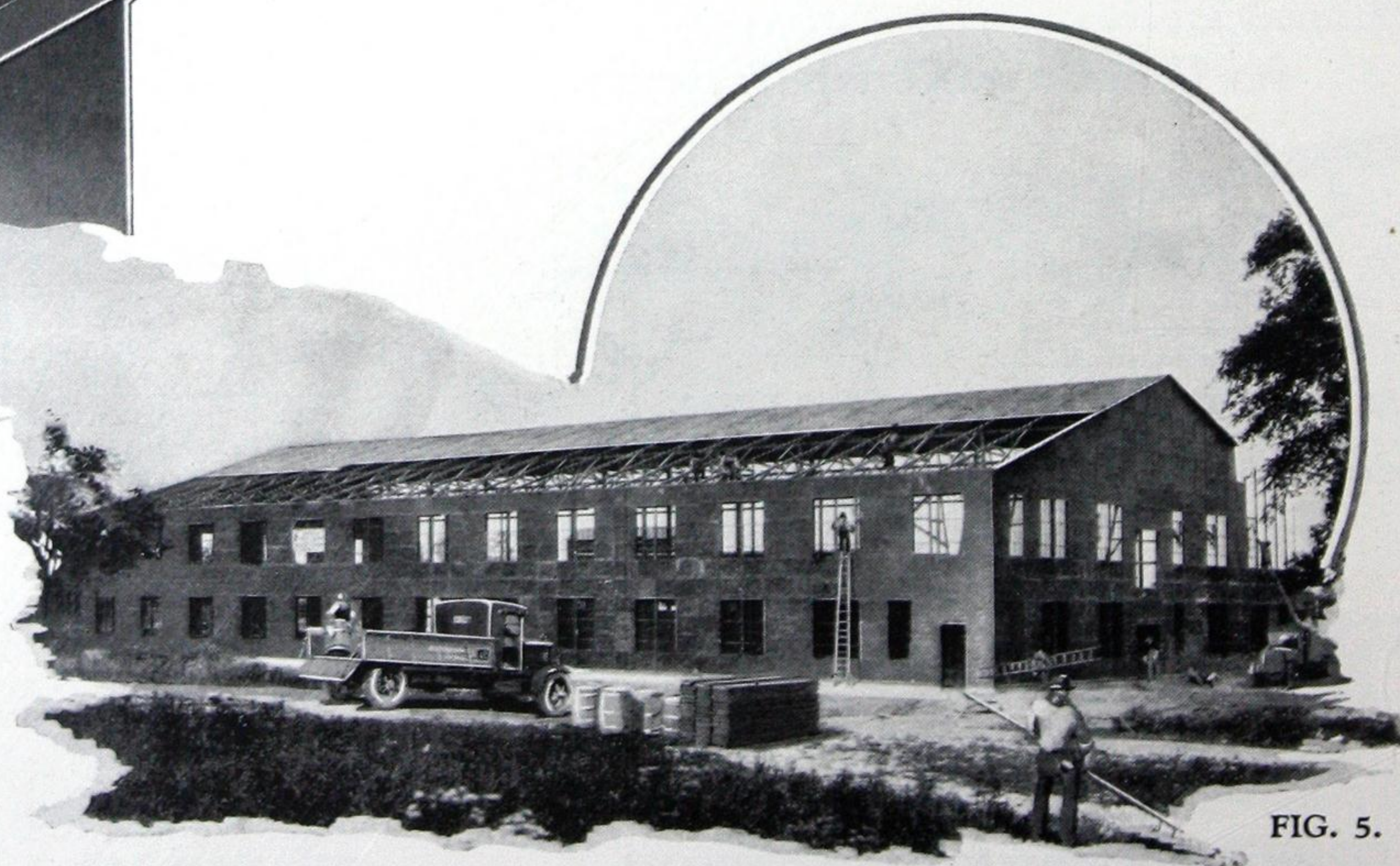


FIG. 5.

"Steeldeck" Roofs with Built-Up Roofing

For Pitched and Flat Roofs,
Series "A" and "B" Buildings

(PAGE 15)

TRUSCON "Steeldeck" is a roof-decking of 18 gauge alloy copper steel plates that is used for flat or pitched roofs. These plates are fabricated sections formed and reinforced to support specified roof loads.

Although designed for a live load of 40 pounds per square foot, "Steeldeck" has been tested to 160 pounds per square foot without failure.

When used on industrial buildings where the roof also serves as a ceiling, "Steeldeck" presents a trim appearance. Its painted surface is an effective light reflector.

Not only is the "Steeldeck" Roof simple in design but also, it is so precisely constructed as to preclude all delay in erecting a strong and rigid roof. The "Steeldeck" Roof is laid with great speed and assured security.

FIG. 1. STIFFENING ANGLE LOCKS DECKPLATES TO SUB-PURLIN

FIG. 2. "STEELDECK" AND RETURN PLATE COMBINE FOR PERFECT WEATHERING

FIG. 3. MANNER OF LAYING 2-PLY BUILT-UP ASPBESTOS ROOFING ON "STEELDECK"

FIG. 4. "STEELDECK" ROOFS PRESENT A PLEAS-
ING INTERIOR APPEARANCE

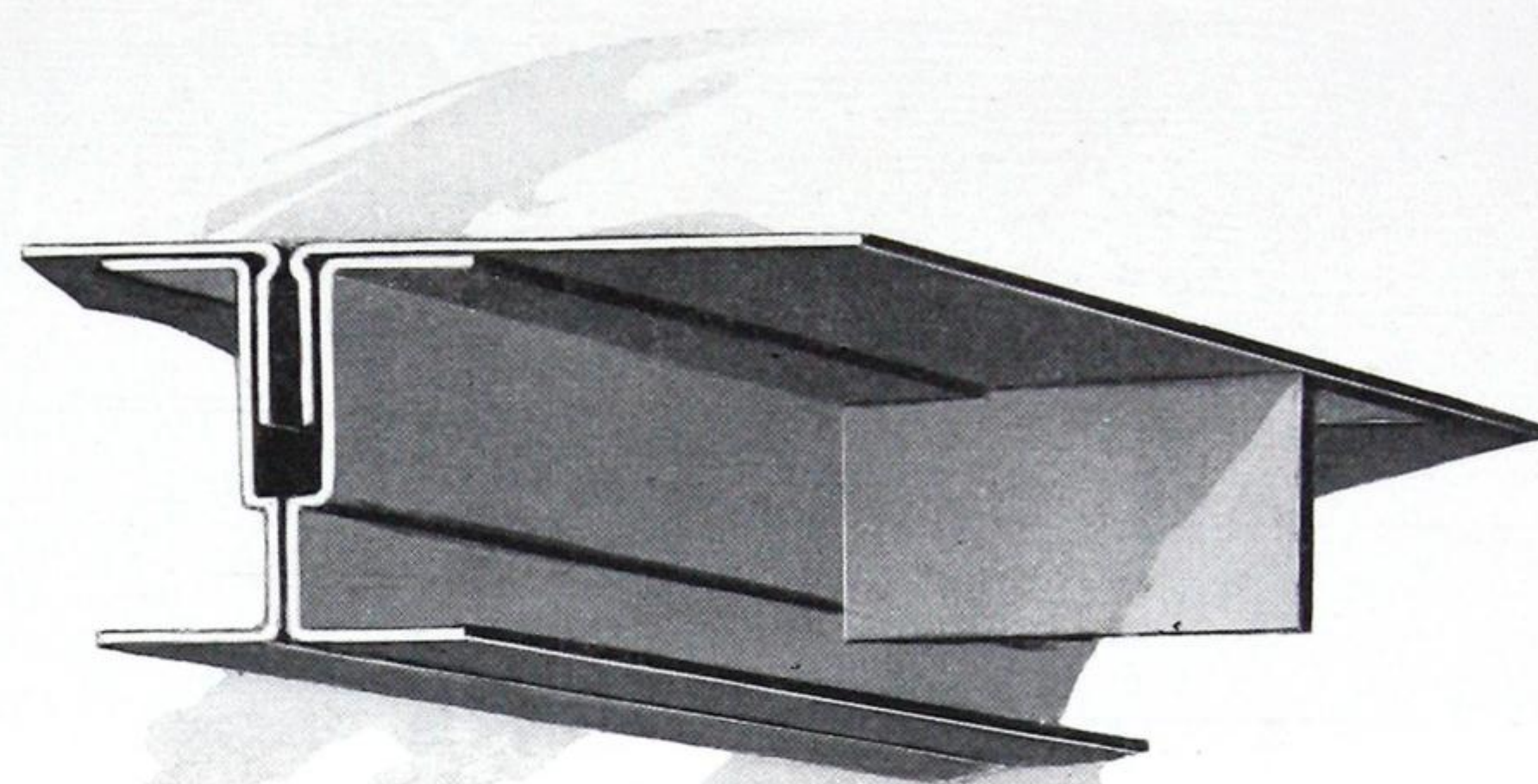


FIG. 1.

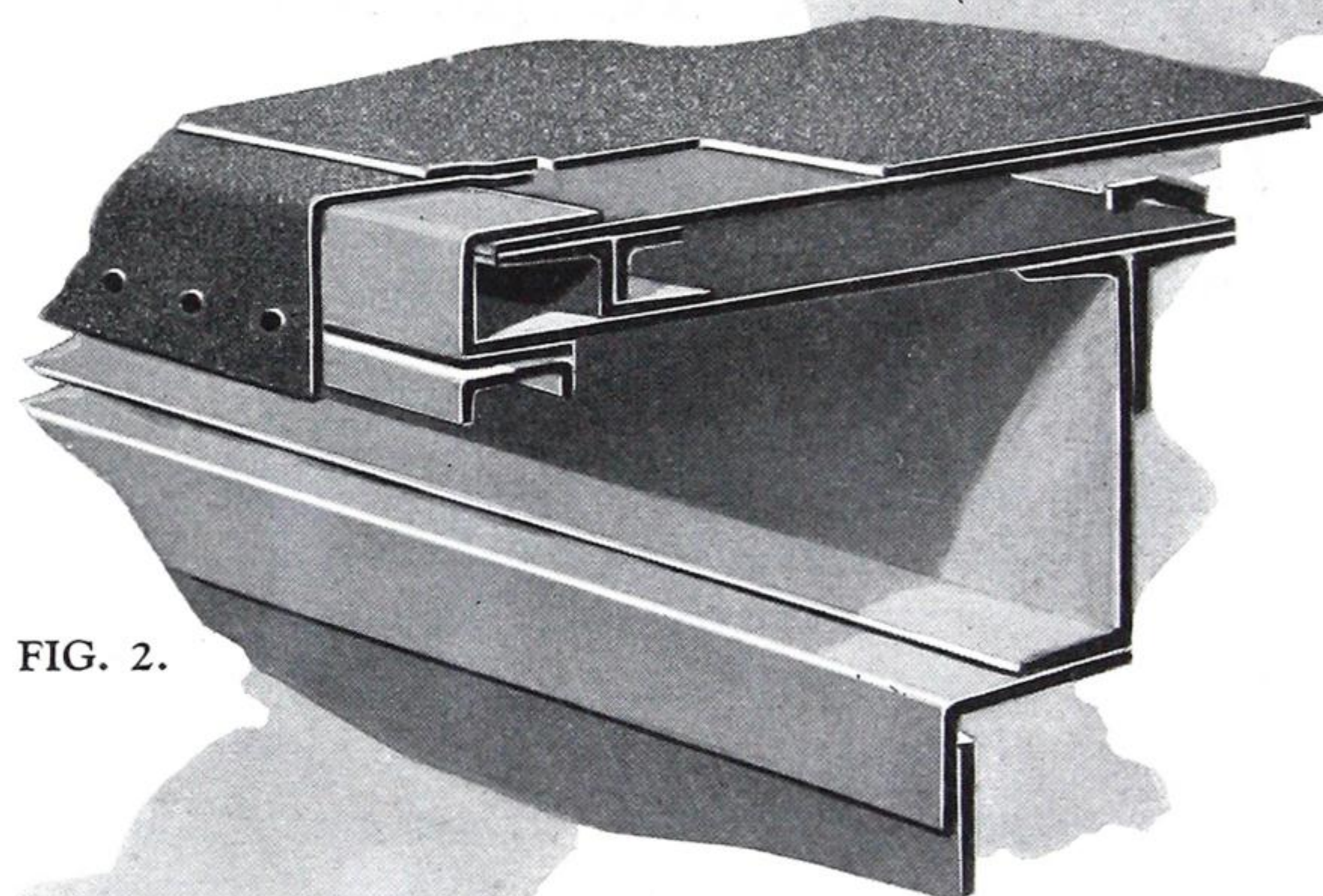


FIG. 2.

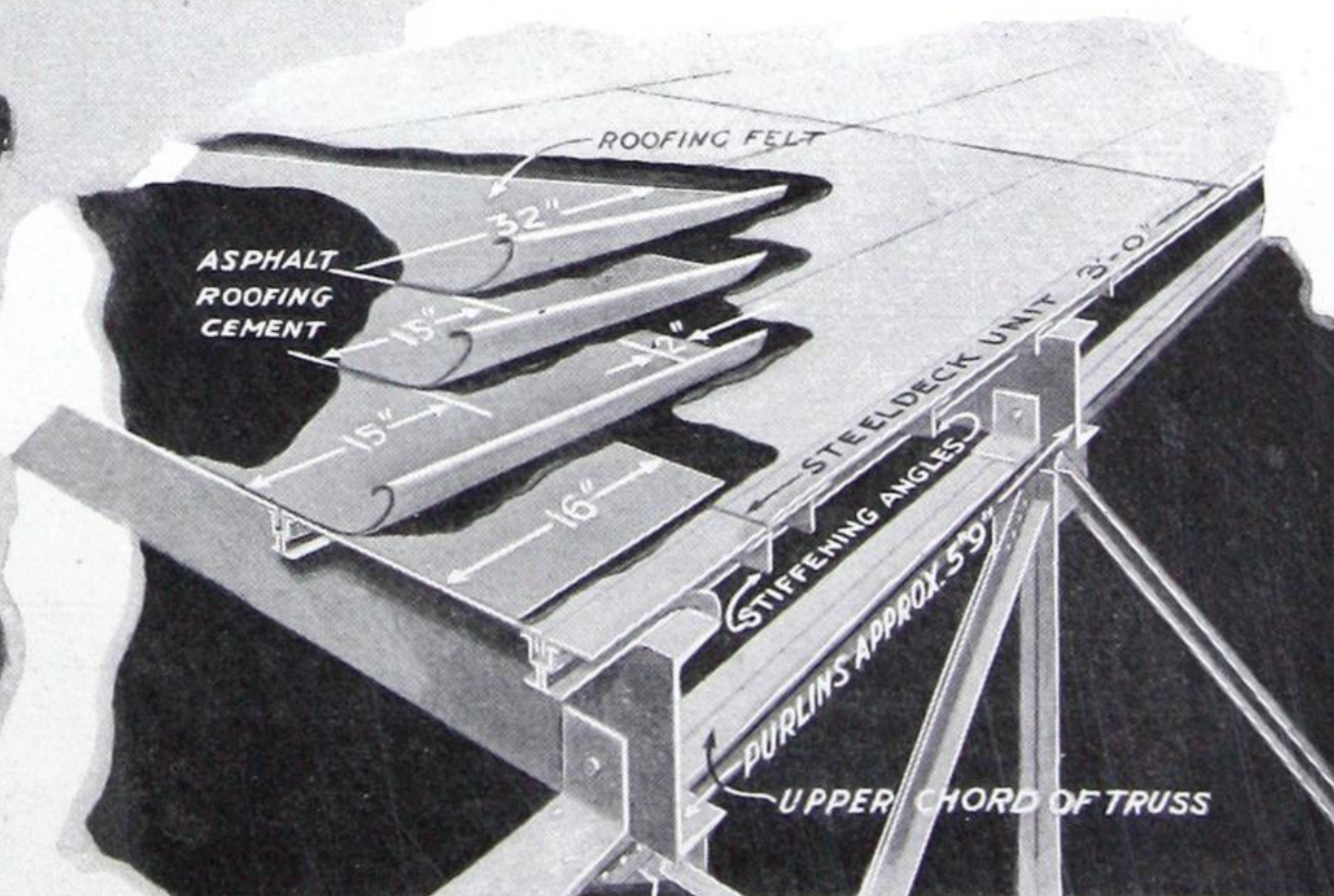


FIG. 3.

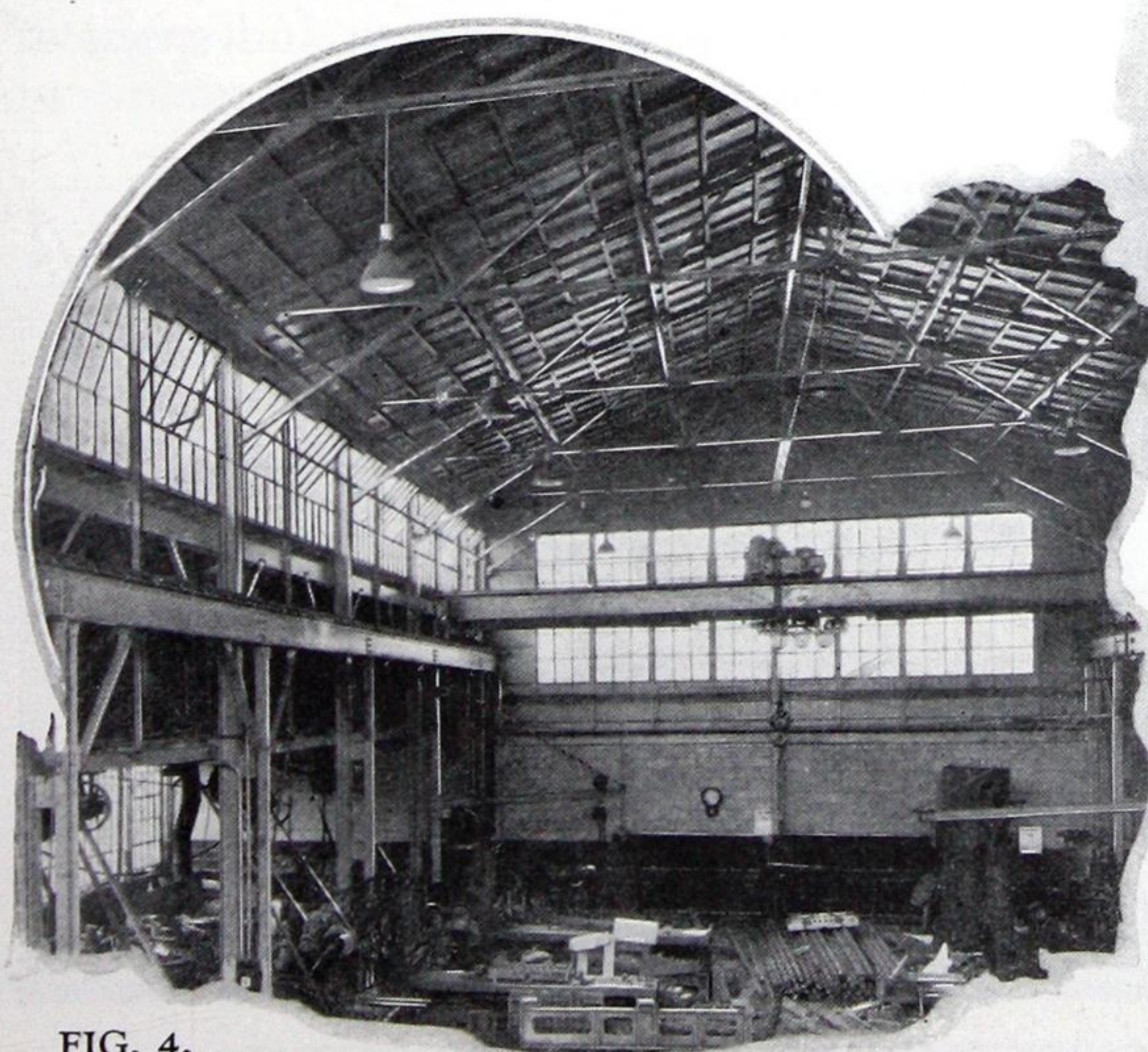
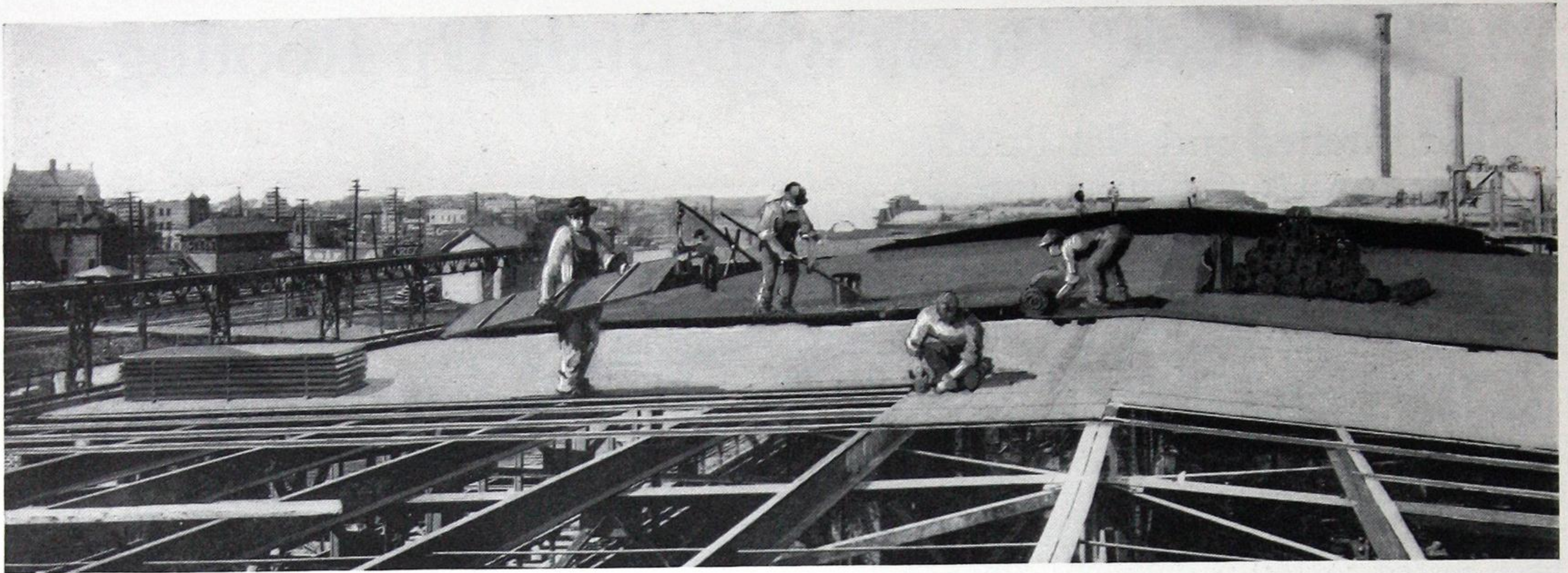


FIG. 4.



BUILT-UP ROOFING IS APPLIED WHILE OTHER AREAS ARE BEING LAID

“Steeldeck” Ideal for Insulating & Waterproofing

TRUSCON “Steeldeck” is unlike most types of roof decks. The built-up waterproofing can be applied immediately, regardless of temperature or other weather conditions, without absorption of moisture or waiting for evaporation to take place.

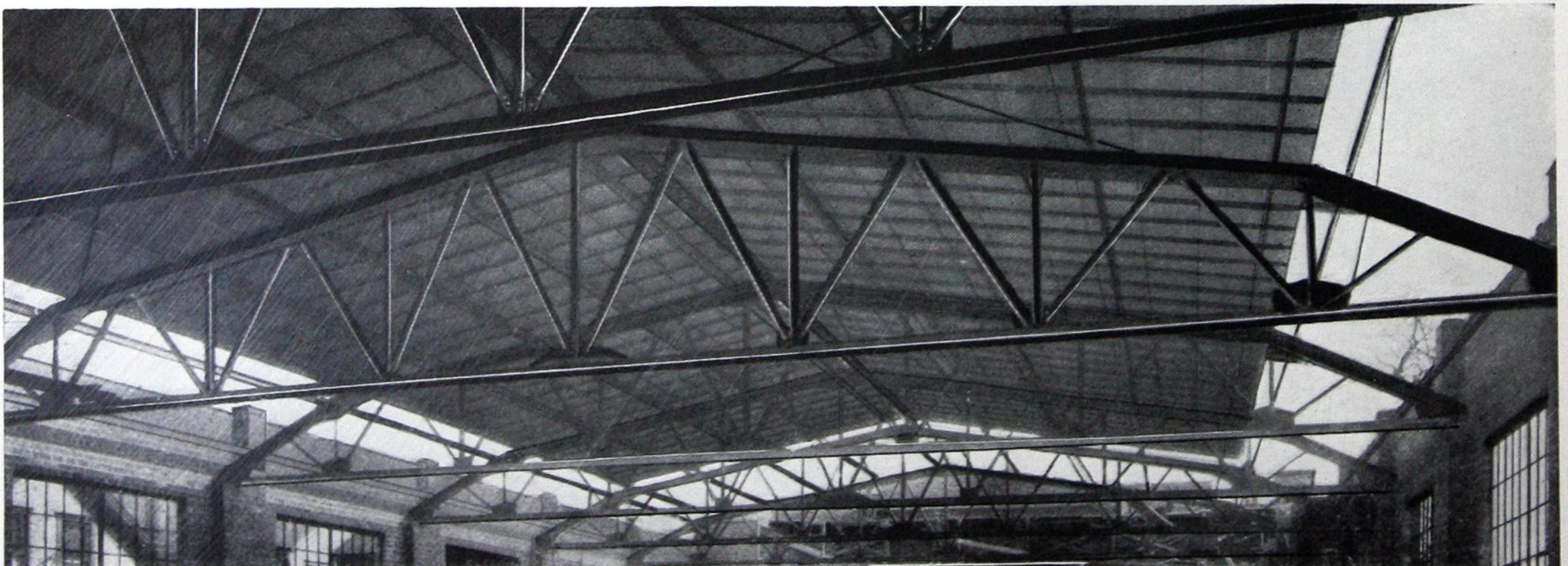
Waterproofing—This roof provides a smooth, solid surface which is ideal for the application of waterproofing material. Its use eliminates any possible damage, from expansion and contraction, to the built-up roofing.

It cannot warp or shrink and there are no bulges or waves, protrusions, holes or open spaces to interfere with the proper construction of built-up roofing or to cause breaks as

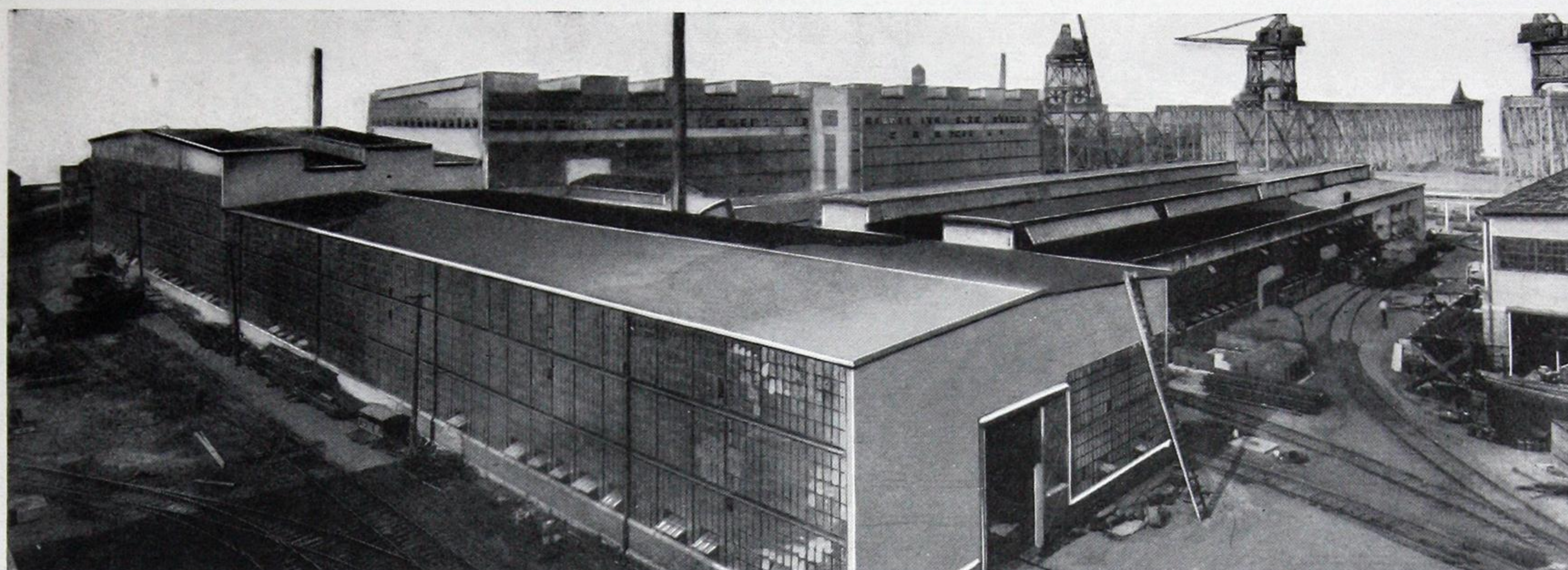
the workmen walk over it. There are no nails, bolts or rivets to work loose and punch up through the waterproofing.

Insulating—By applying insulating materials before the waterproof membrane is laid, the Truscon “Steeldeck” roof can be built up to any desired degree of insulation. This insulating material conserves heat and eliminates condensation.

Truscon “Steeldeck” is the only base upon which insulation and built-up roofing can be constructed with positive assurance of safety. It is the best non-combustible roof deck which combines permanence, strength and speed of erection at low cost.



THIS FIRE-SAFE “STEELDECK” ROOF QUICKLY LAID WITHOUT STAGING



FIRESAFE "STEELDECK" ROOFS FOR MANY TYPES OF BUILDINGS

"Steeldeck" Is Economical for Straight Roofs

THIS type of roof is not recommended for roofs of complicated design but for buildings having either flat or pitched straightaway roofs. "Steeldeck" can be used at less cost than any other roof decking which combines all of its features.

Its qualities, distinctive and most desirable, constitute significant reasons for the widespread acceptance accorded "Steeldeck" by architects and engineers. Besides being used on all Series "B" Truscon Buildings and if desired, on Series "A" Truscon Buildings, "Steeldeck" is used as a secure roof for hotels, apartment houses, public garages, theatres,

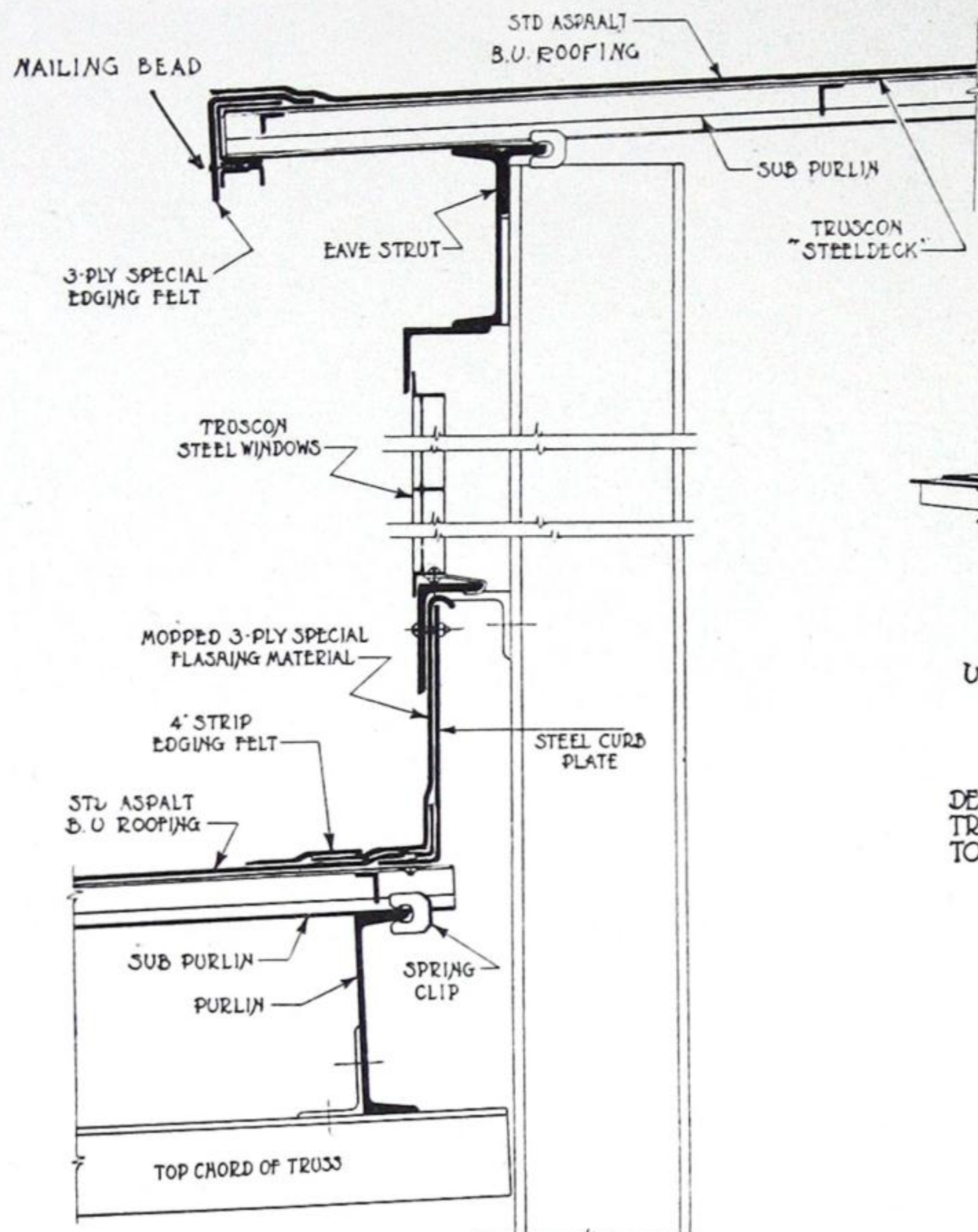
warehouses, telephone exchanges, dormitories, schools and industrial buildings of all kinds.

"Steeldeck" is a standardized Truscon product. It is manufactured on a large scale production basis that makes possible a market price much lower than that of any other roof decking which approximates the superiority achieved by the combined features of Truscon "Steeldeck."

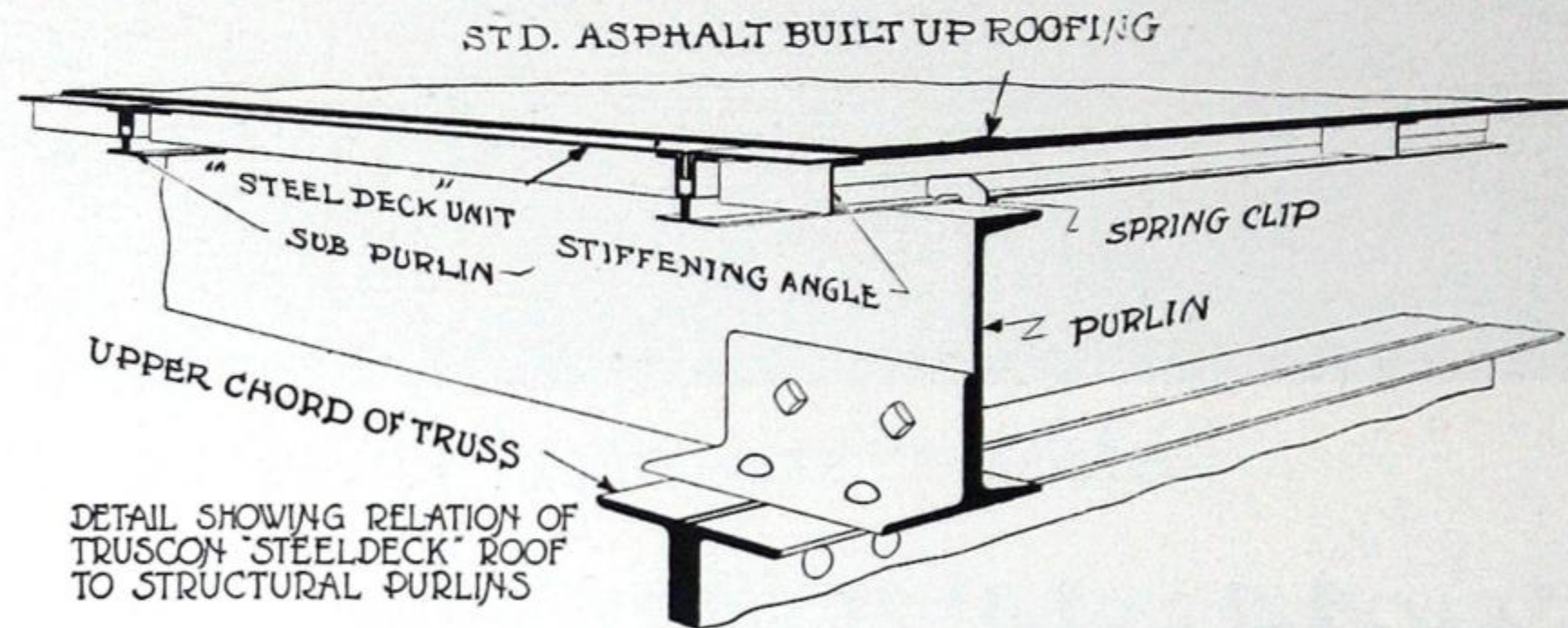
This product stands alone above the mass of common light weight roof decking that is regarded as a menace and a fire risk. It gives the builder a roof that is a guardian of property—a sentinel of safety.



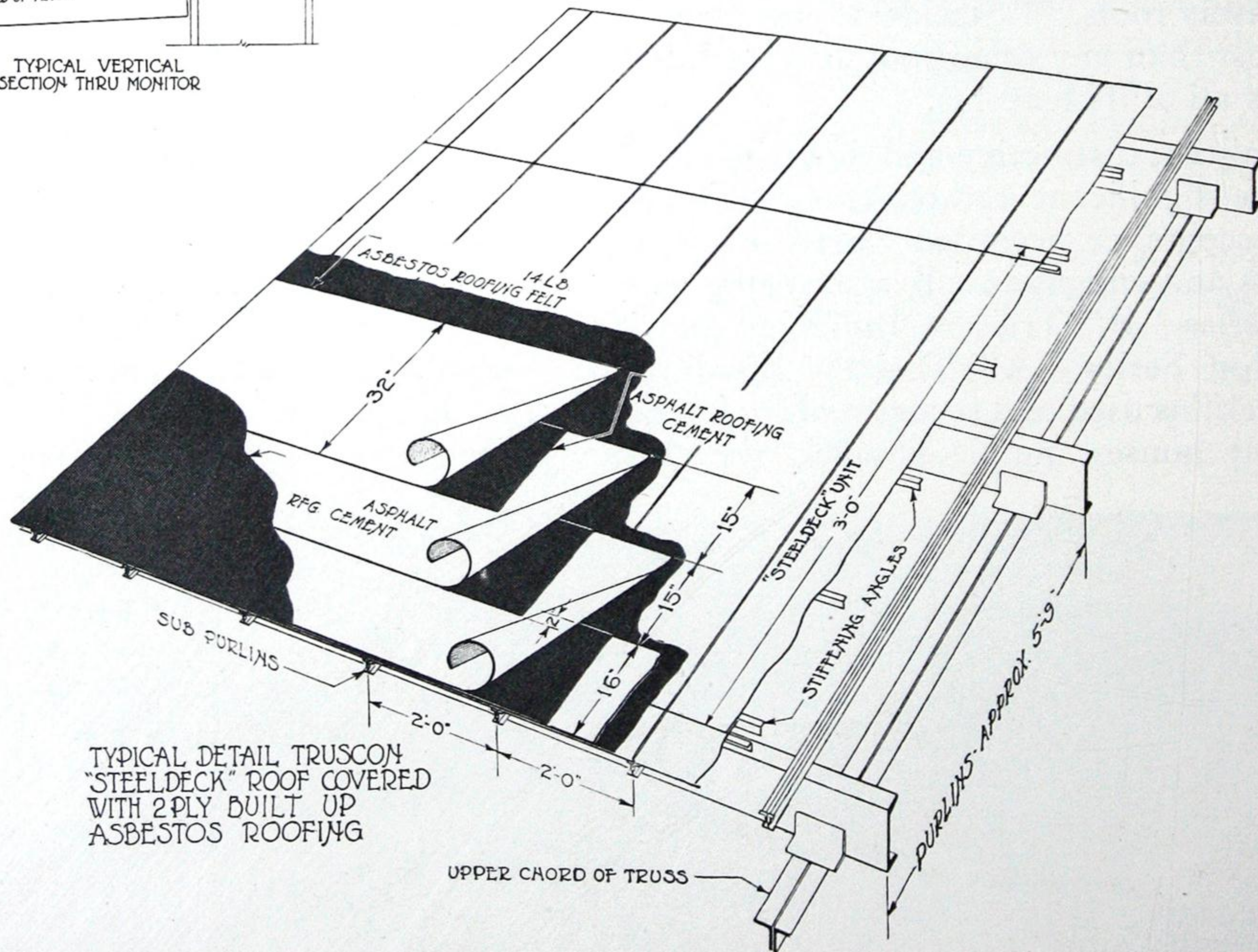
A SIMPLE AND STRONG "STEELDECK" ROOF FOR THIS BUILDING WITH BRICK WALLS



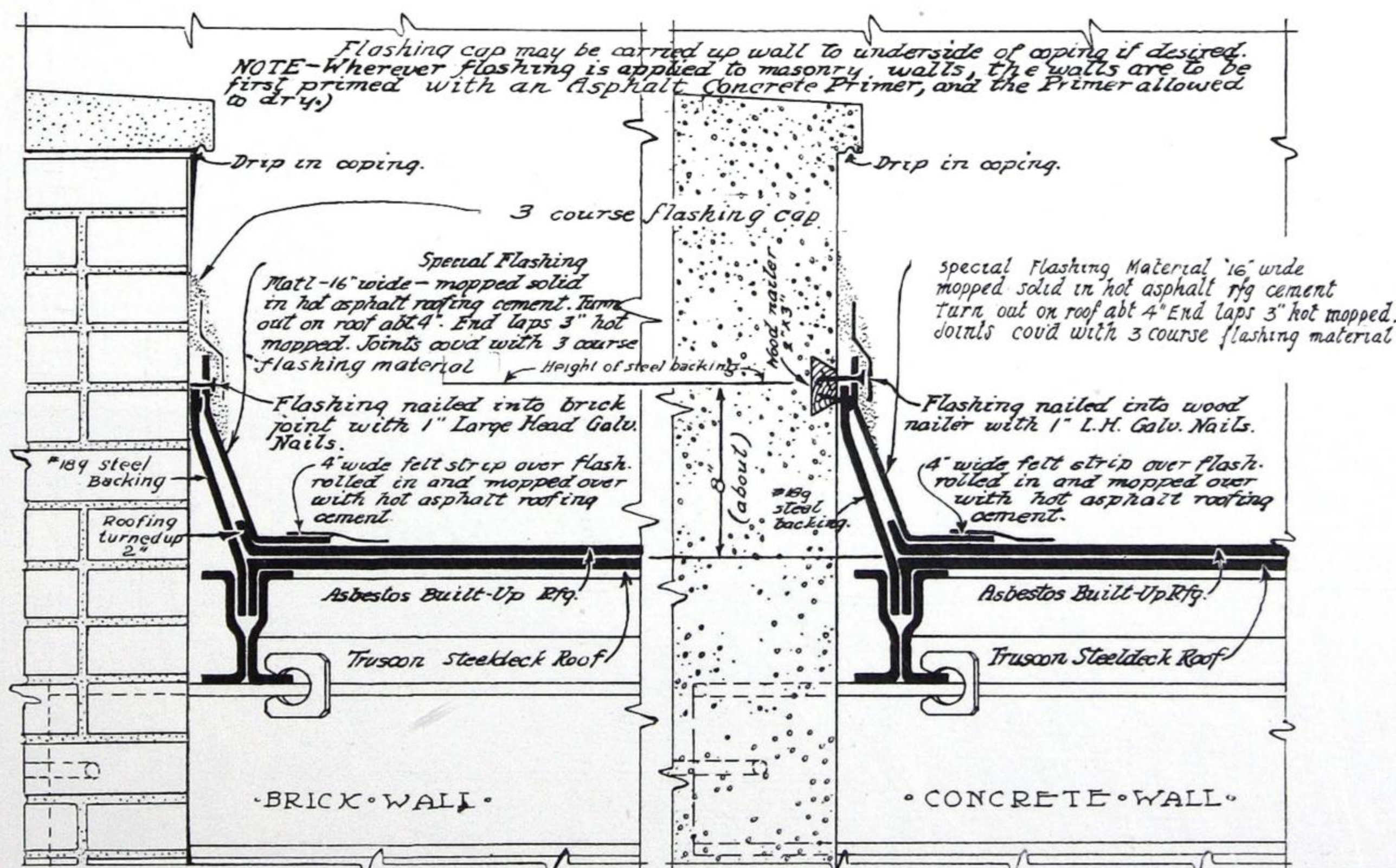
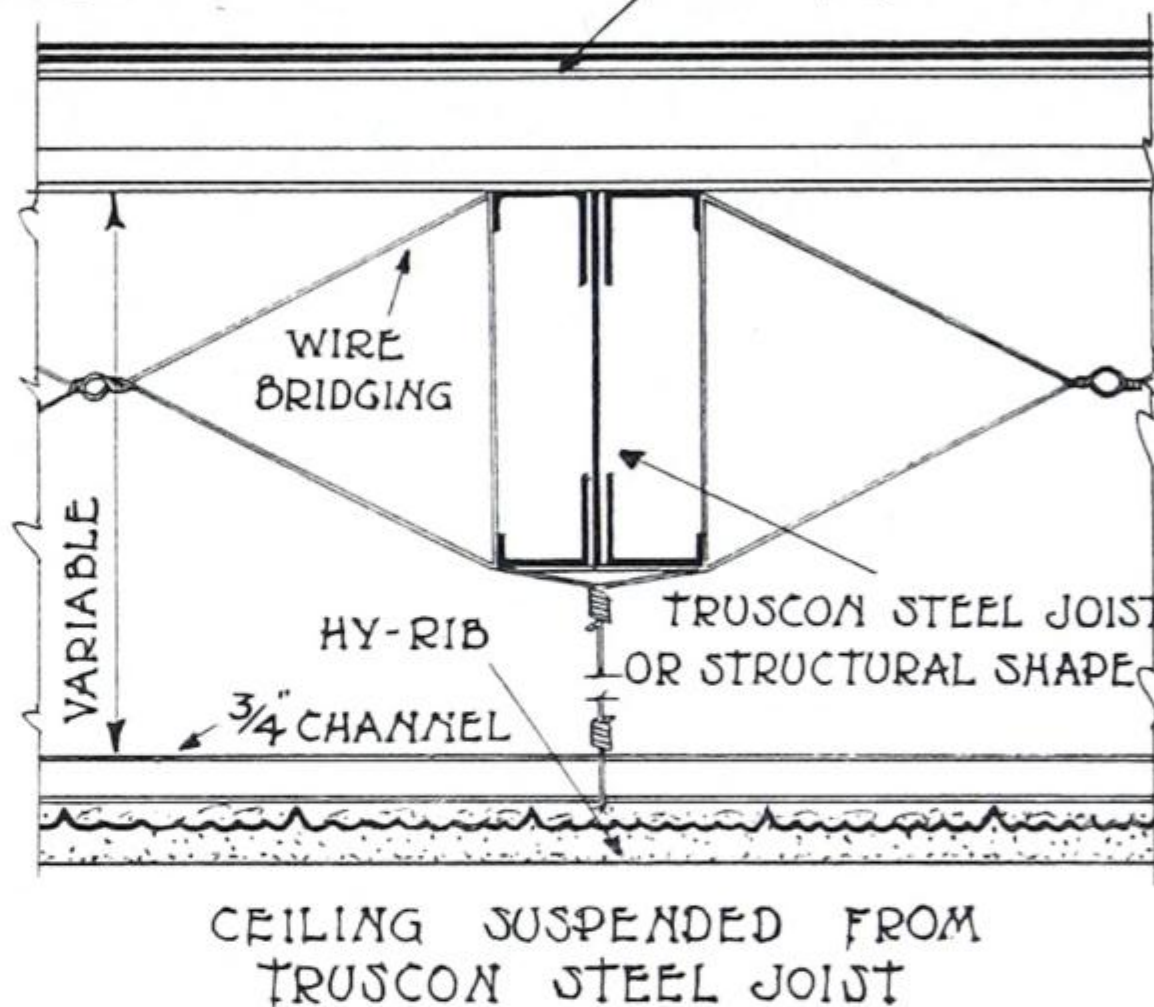
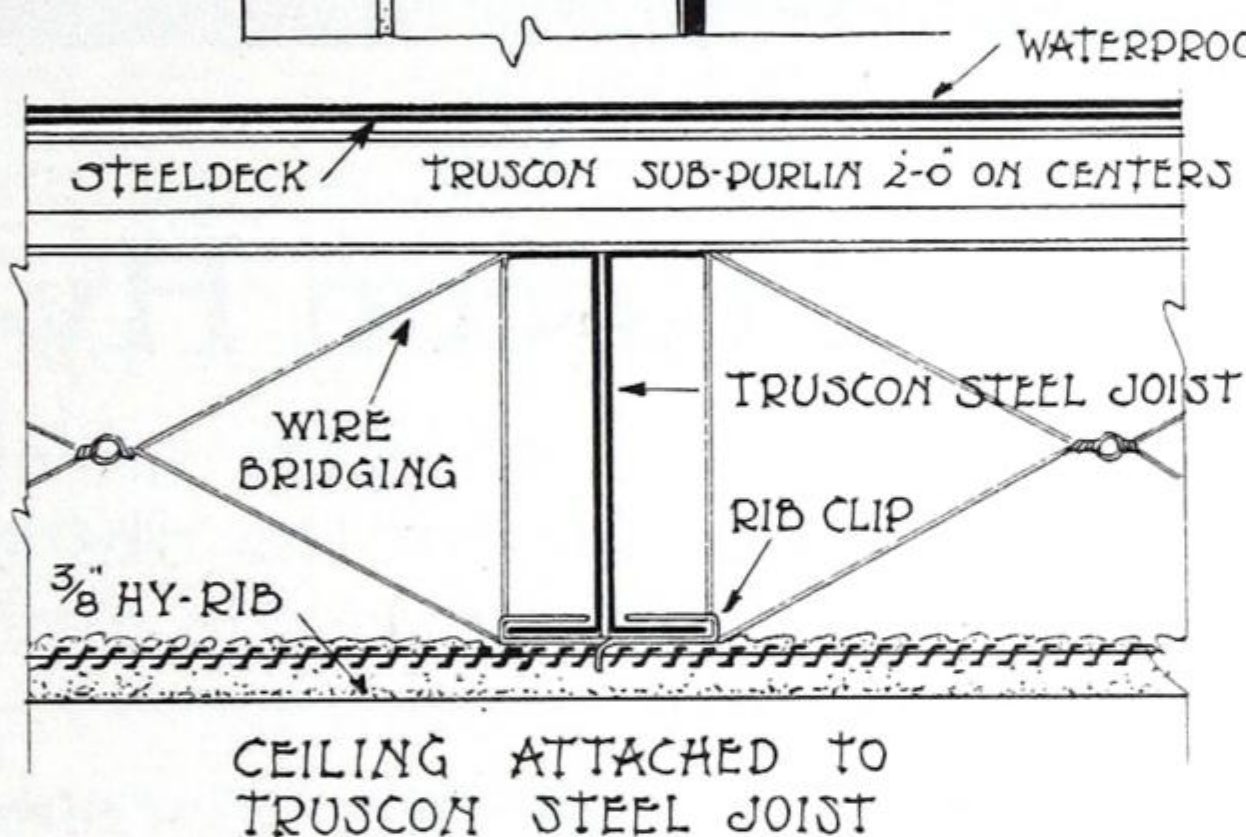
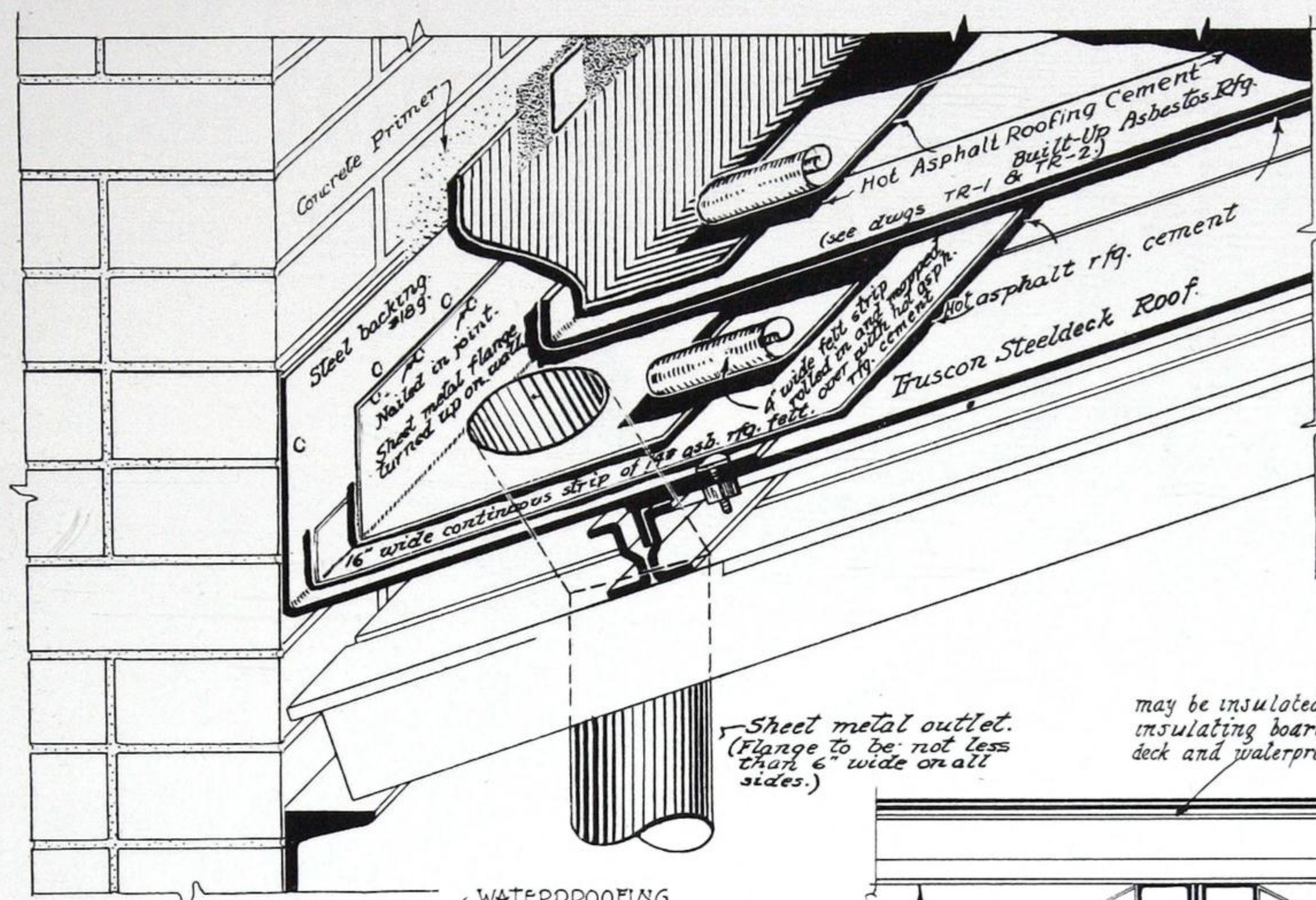
TYPICAL VERTICAL SECTION THRU MONITOR



DETAIL SHOWING RELATION OF TRUSCON "STEELDECK" ROOF TO STRUCTURAL PURLINS



TYPICAL DETAIL TRUSCON "STEELDECK" ROOF COVERED WITH 2-PLY BUILT UP ASBESTOS ROOFING





HY-RIB REINFORCED CONCRETE ROOFS ARE QUICKLY ERECTED

Concrete Roofs Reinforced with Truscon Hy-Rib

WHENEVER conditions warrant it Truscon Hy-Rib concrete roofs can be had at an exceptionally low cost because they are quickly erected, light in weight and do not require special equipment on forming. It is not necessary to plaster the under-side of a Hy-Rib concrete roof, and this

in itself makes a considerable saving. The clean, sharp black lines of the ribs with the grey concrete on the under-side give a very pleasing effect.

The erection of a Hy-Rib concrete roof is very simple. Sheets of Hy-Rib are laid over supports, clipped or nailed in place, small pencil rods are wired to the Hy-Rib in both directions, and the concrete is poured. The concrete is easily leveled off.

Hy-Rib reinforced concrete is a very efficient type of permanent, fireproof and economical construction for roofs.

TRUSCON $\frac{3}{4}$ " HY-RIB

HY-RIB ROOFS ARE LIGHT IN WEIGHT BUT COMPETENTLY STRONG AND FIREPROOF

Sidewall Panels for Truscon Buildings

THE sidewall panels of Truscon Buildings can be combined in almost any arrangement. From the standard unit 4' wide x 2' 8" high (Fig. 1), sidewalls that are multiples of its height (Fig. 3), are built up to heights of from 8' 1" to 21' 5" for Series "A" Truscon Buildings and to 32' 10" for Series "B" Truscon Buildings. Greater heights can be furnished by special arrangement, if desired.

Horizontal joining is ingeniously effected by interlocking the units with a stiff spring connection (Fig. 4).

Standard steel mullions (Fig. 5) are used for studs and to these the panels are fastened with the wedge and tee bolt connection (Fig. 2).

The mullion used for corners has a heavier flange, covering the edge of the panels it joins so that any impacts against the corner are received by this heavy steel section (Fig. 6).

It is apparent that these connections are organically rigid and tight, and cannot loosen.

There are no shop or field holes punched in the exposed surfaces of this 18 gauge copper alloy steel wall.

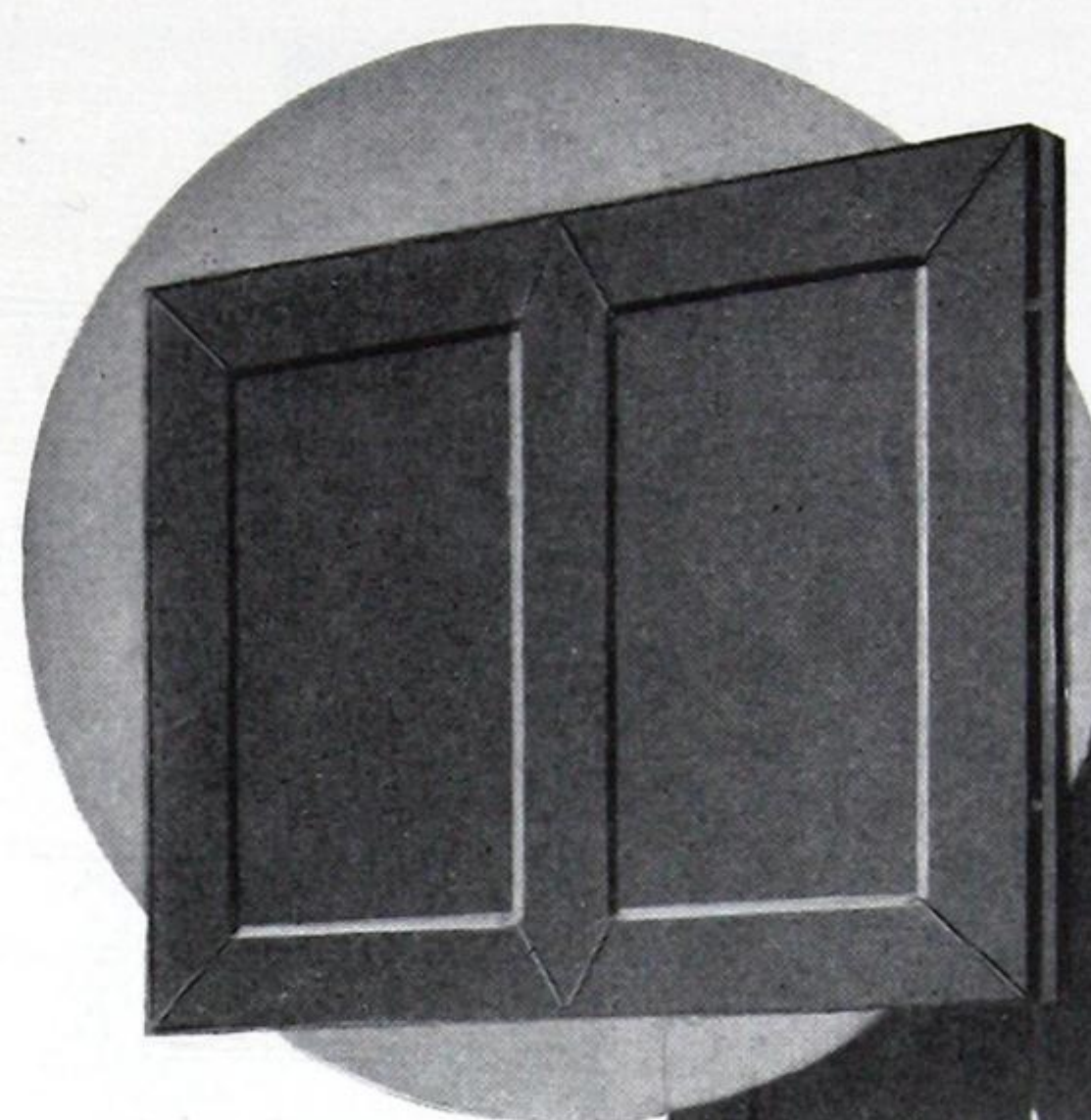


FIG. 1.

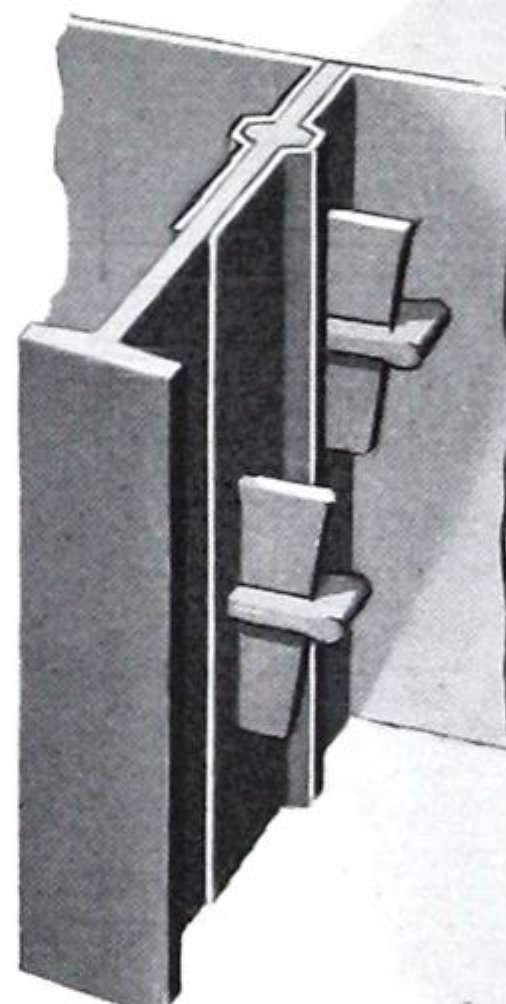


FIG. 2.

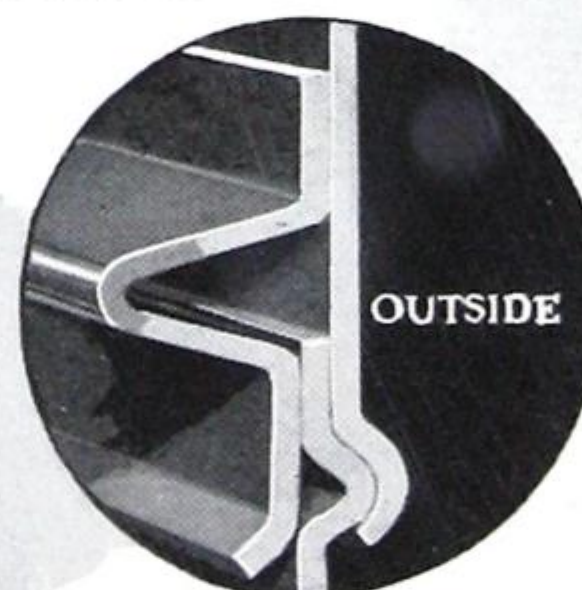


FIG. 4.

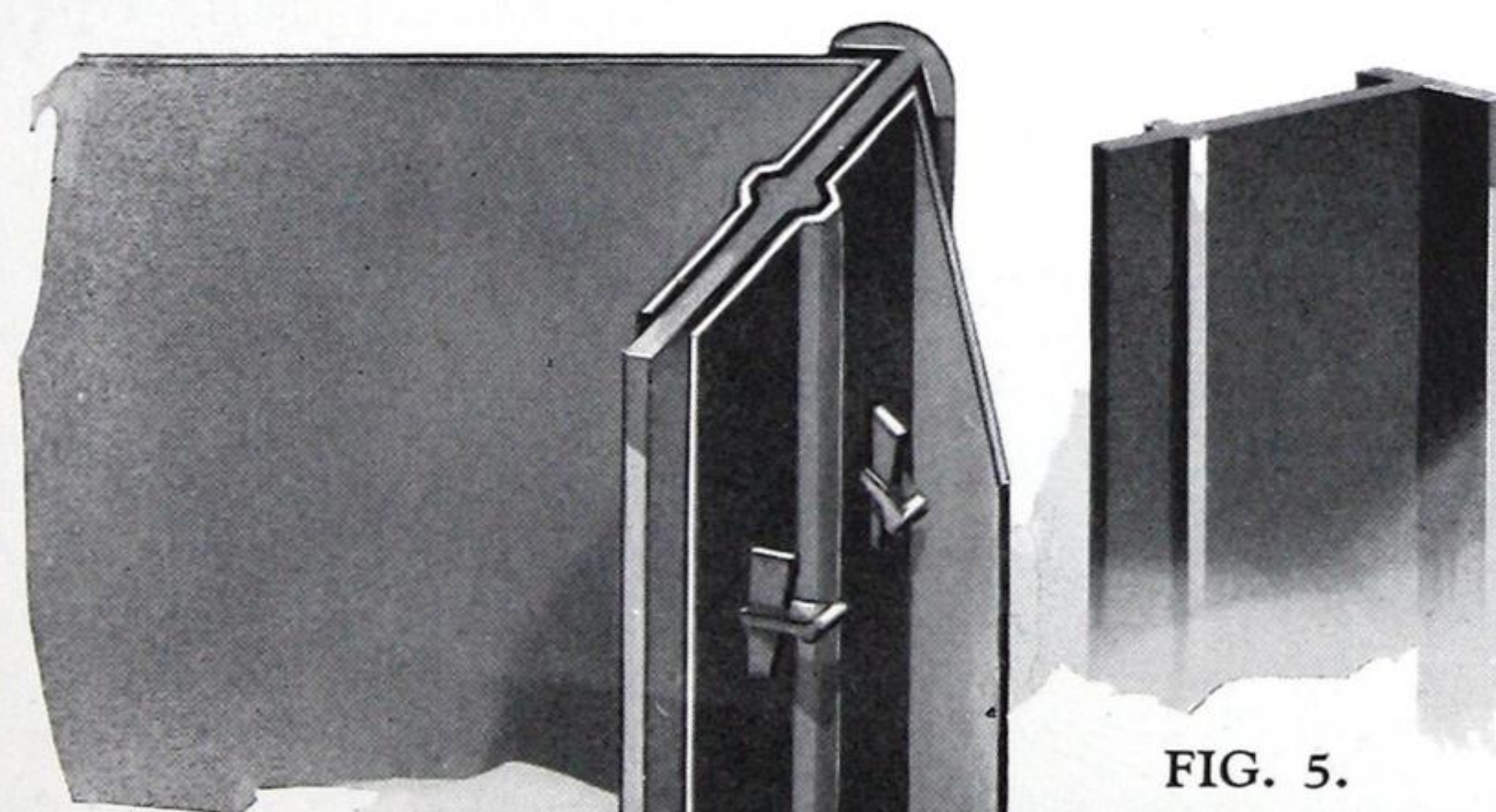


FIG. 5.

FIG. 6.

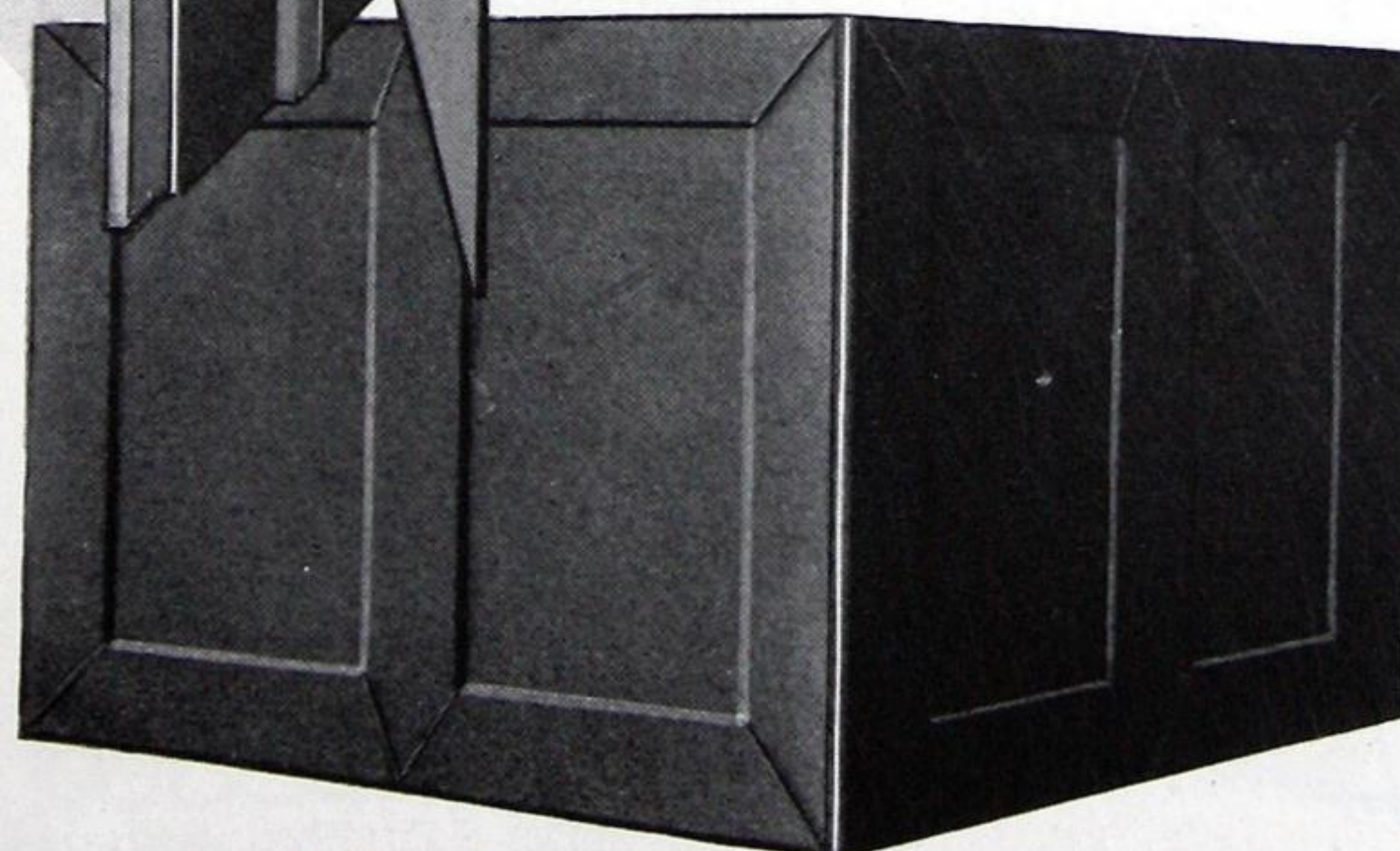


FIG. 3.

Daylight Panels for Truscon Buildings

LIKE the solid panels, Truscon Daylight Panels are of standard sizes. They are interchangeable with solid panels to any degree. They are furnished with or without ventilator sections. Contacts of ventilators are weathertight, having two-point weathering.

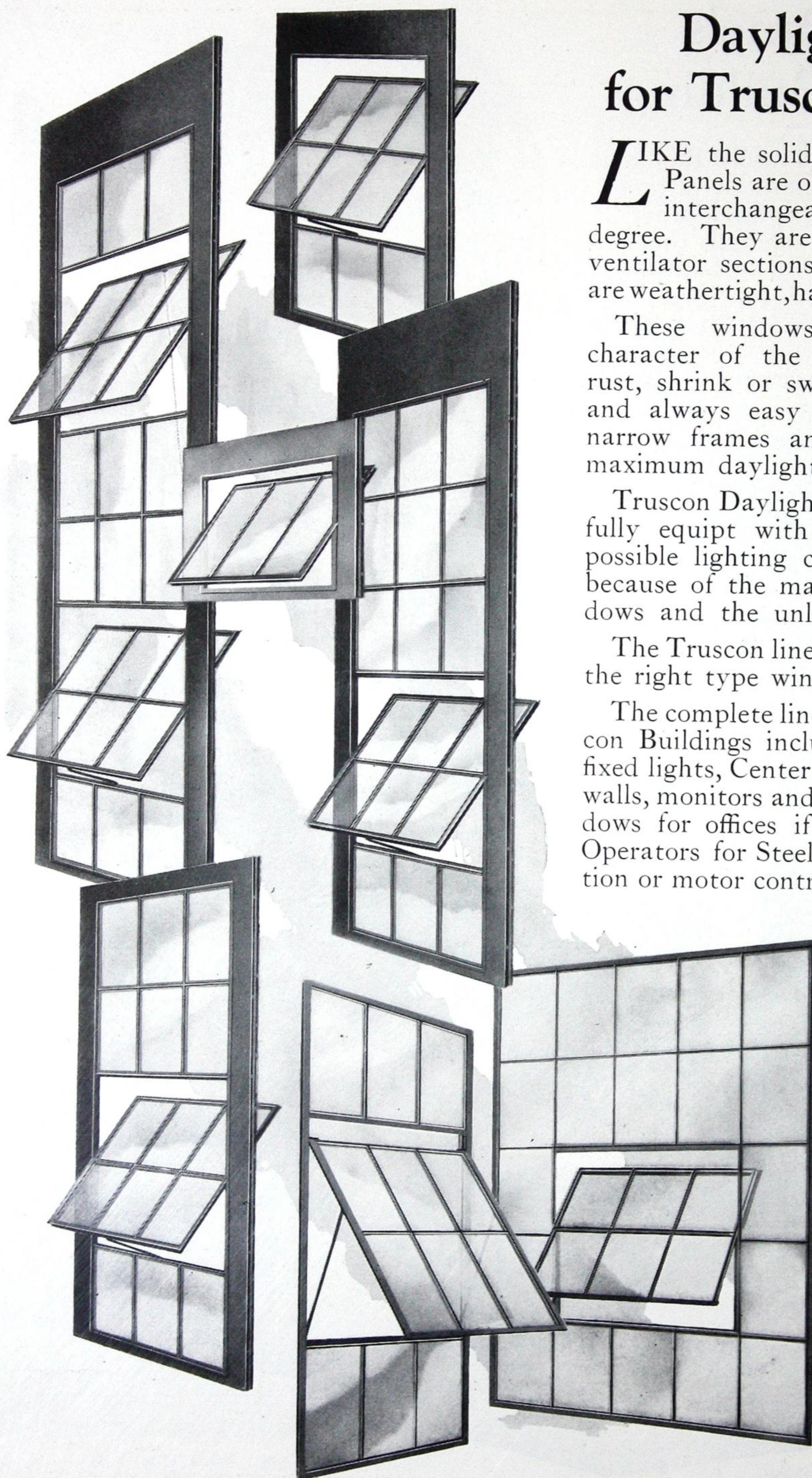
These windows complete the fireproof character of the building. They will not rust, shrink or swell. They are permanent and always easy to open and close. The narrow frames and slender muntins allow maximum daylight for the window opening.

Truscon Daylight Panels are complete units fully equipt with suitable hardware. Any possible lighting condition can be obtained because of the many sizes of standard windows and the unlimited choice of location.

The Truscon line of Steel Windows provides the right type window for every purpose.

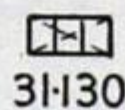
The complete line of steel windows for Truscon Buildings includes: Standard Sash with fixed lights, Center Pivoted Windows, for side walls, monitors and sawtooth; Projected Windows for offices if desired; and Mechanical Operators for Steel Windows for hand operation or motor control.

TRUSCON WINDOWS are electrically welded into the panels before shipment except where they are to be set in concrete or masonry. In such cases they are furnished as separate units with expandible mullions. A further advantage is that Truscon Windows are designed to take either sheet or wire glass up to a thickness of $\frac{1}{4}$ inch.

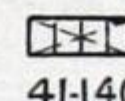


1 LIGHT HIGH

12"X 18" GLASS 1'-7 1/4"
14"X 20" GLASS 1'-9 1/4"



31-130



41-140

2 LIGHTS HIGH

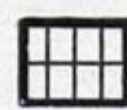
12"X 18" GLASS 3'-1 5/8"
14"X 20" GLASS 3'-5 5/8"



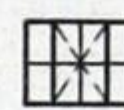
32



32-160



42



42-140



42-180

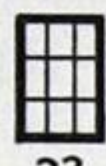
STOCK UNITS ARE
FURNISHED IN 14"X 20"
GLASS SIZES ONLY

3 LIGHTS HIGH

12"X 18" GLASS 4'-8"
14"X 20" GLASS 5'-2"



23-141



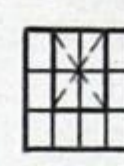
33



33-161



43



43-141



43-181

4 LIGHTS HIGH

12"X 18" GLASS 6'-2 3/8"
14"X 20" GLASS 6'-10 3/8"

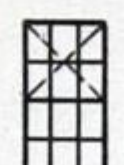
2 LIGHTS
WIDE
2'-5 5/8"
14"X 20"
GLASS ONLY



34



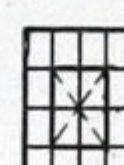
34-161



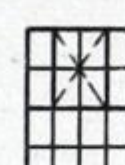
34-162



44



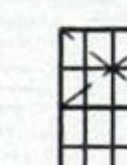
44-141



44-142



44-181



44-182

5 LIGHTS HIGH

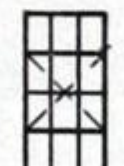
12"X 18" GLASS 7'-8 3/4"
14"X 20" GLASS 8'-6 3/4"



35



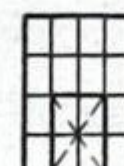
35-161



35-162



45



45-141



45-142



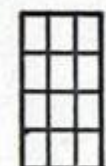
45-181



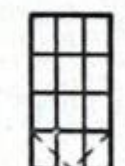
45-182

6 LIGHTS HIGH

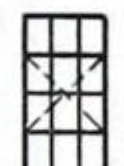
12"X 18" GLASS 9'-3 1/8"
14"X 20" GLASS 10'-3 1/8"



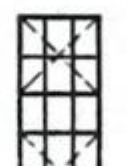
36



36-161



36-163



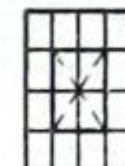
36-2611



46



46-141



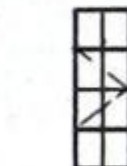
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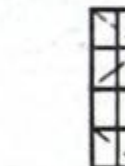
46-2411



46-181



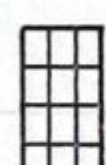
46-183



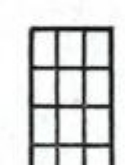
46-2811

7 LIGHTS HIGH

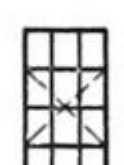
12"X 18" GLASS 10'-9 1/2"
14"X 20" GLASS 11'-11 1/2"



37



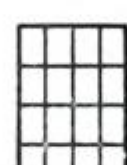
37-161



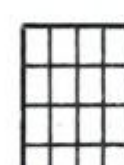
37-164



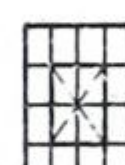
37-2611



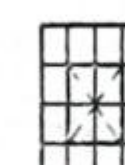
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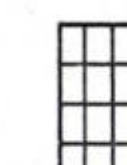
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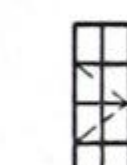
47-144



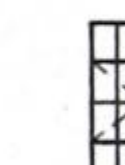
47-2411



47-181



47-184



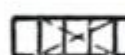
47-2811

3 LIGHTS WIDE
12"X 18" GLASS 3'-2" 14"X 20" GLASS 3'-8"

4 LIGHTS WIDE
12"X 18" GLASS 4'-2 3/8" 14"X 20" GLASS 4'-10 3/8"

1 LIGHT HIGH

12"X 18" GLASS 1'-7 1/4"
14"X 20" GLASS 1'-9 1/4"



51-130

2 LIGHTS HIGH

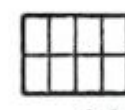
12"X 18" GLASS 3'-1 5/8"
14"X 20" GLASS 3'-5 5/8"



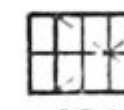
52



52-160



62



62-180

3 LIGHTS HIGH

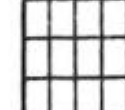
12"X 18" GLASS 4'-8"
14"X 20" GLASS 5'-2"



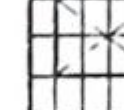
53



53-161



63



63-181

4 LIGHTS HIGH

12"X 18" GLASS 6'-2 3/8"
14"X 20" GLASS 6'-10 3/8"



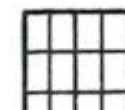
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54-161



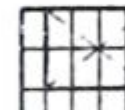
54-162



64



64-181



64-182

5 LIGHTS HIGH

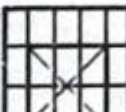
12"X 18" GLASS 7'-8 3/4"
14"X 20" GLASS 8'-6 3/4"



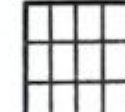
55



55-161



55-162



65



65-181



65-182

6 LIGHTS HIGH

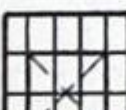
12"X 18" GLASS 9'-3 1/8"
14"X 20" GLASS 10'-3 1/8"



56



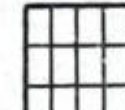
56-161



56-163



56-2611



66



66-181



66-183



66-2811

7 LIGHTS HIGH

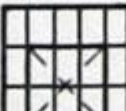
12"X 18" GLASS 10'-9 1/2"
14"X 20" GLASS 11'-11 1/2"



57



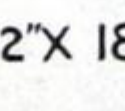
57-161



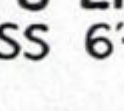
57-164



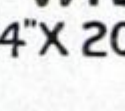
57-2611



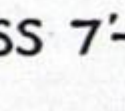
67



67-181



67-184



67-2811

5 LIGHTS WIDE
12"X 18" GLASS 5'-2 3/4" 14"X 20" GLASS 6'-0 3/4"

6 LIGHTS WIDE
12"X 18" GLASS 6'-3 1/8" 14"X 20" GLASS 7'-3 1/8"

Stock Units, indicated by heavy black lines are delivered immediately from our warehouses and by dealers everywhere. Stock units are furnished in 14"X 20" glass size only.

Standard Units, including all types shown, are assembled at our factory from pre-fabricated members. Standard units are furnished in 14"X 20" and 12"X 18" glass sizes except No. 23-141 as noted.

Ventilators, indicated by crossed dashed lines, are horizontally pivoted 2" above centers

Full sizes of glass occur in stationary portion of window only. In ventilators these dimensions are reduced 1" along tops and bottoms and 1" along sides.

Truscon Steel Windows may be combined to fill openings of any width by means of Truscon Standard Mullions. All types shown are punched for mullions. To obtain width of opening add 2" for each mullion required.

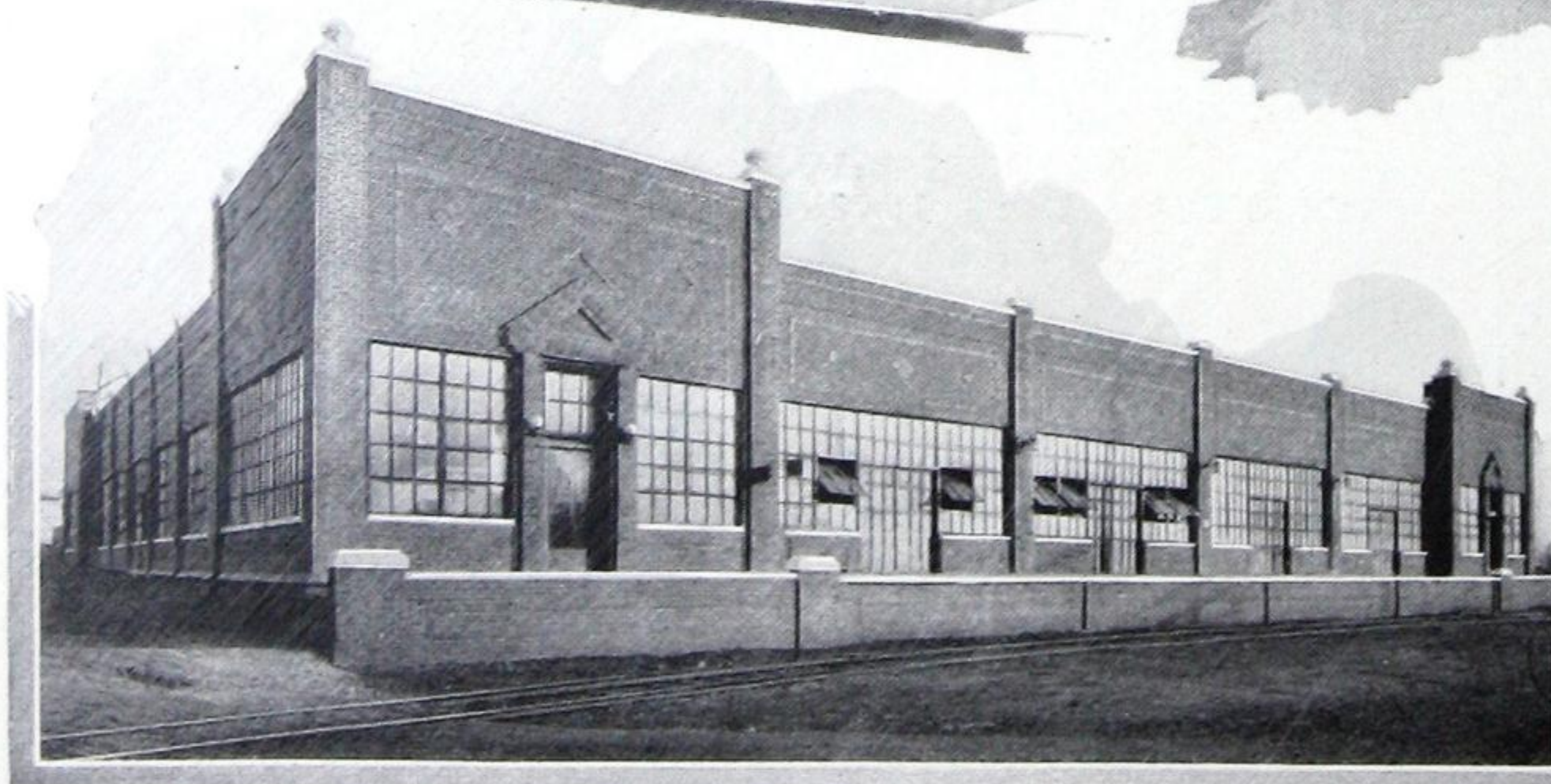
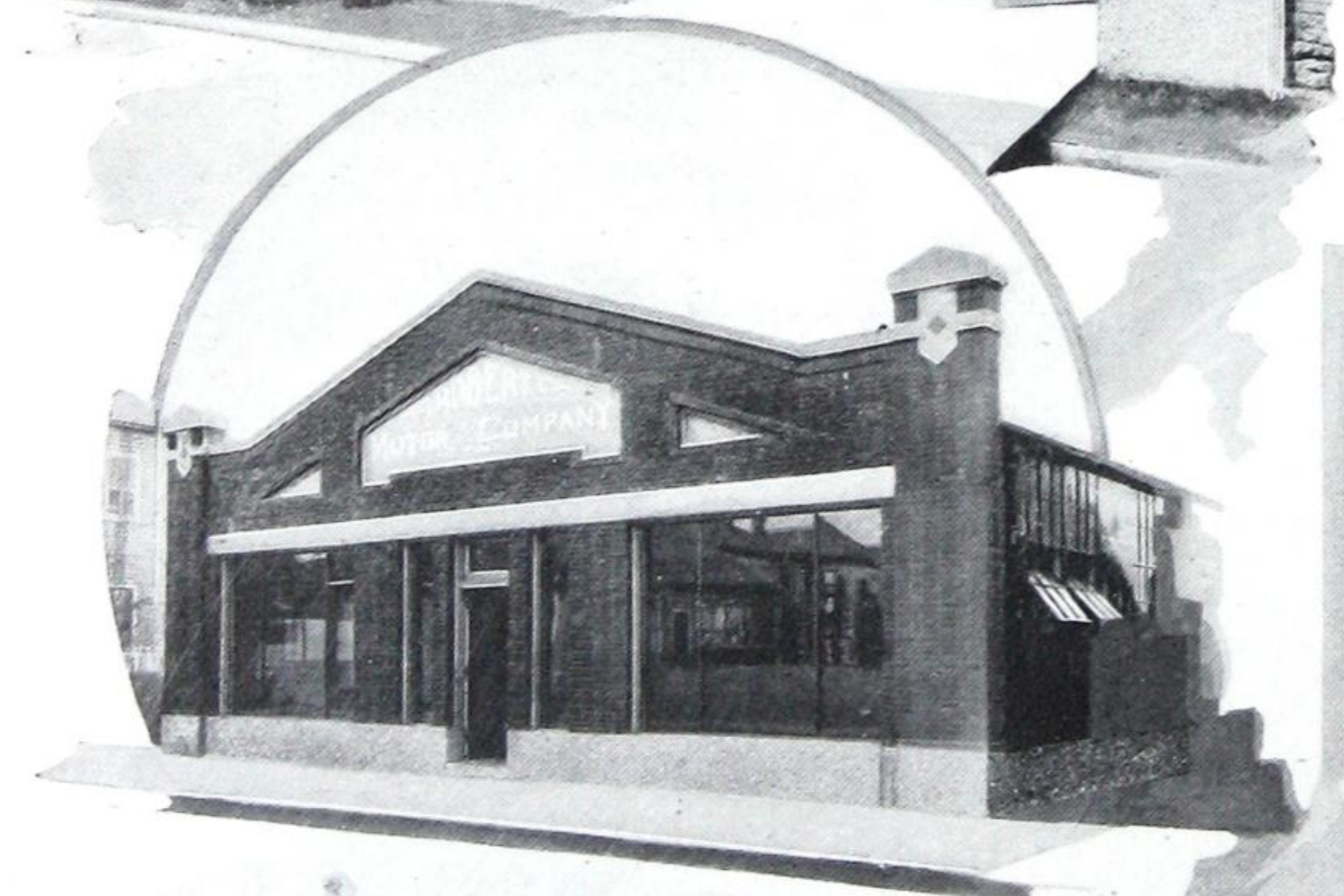
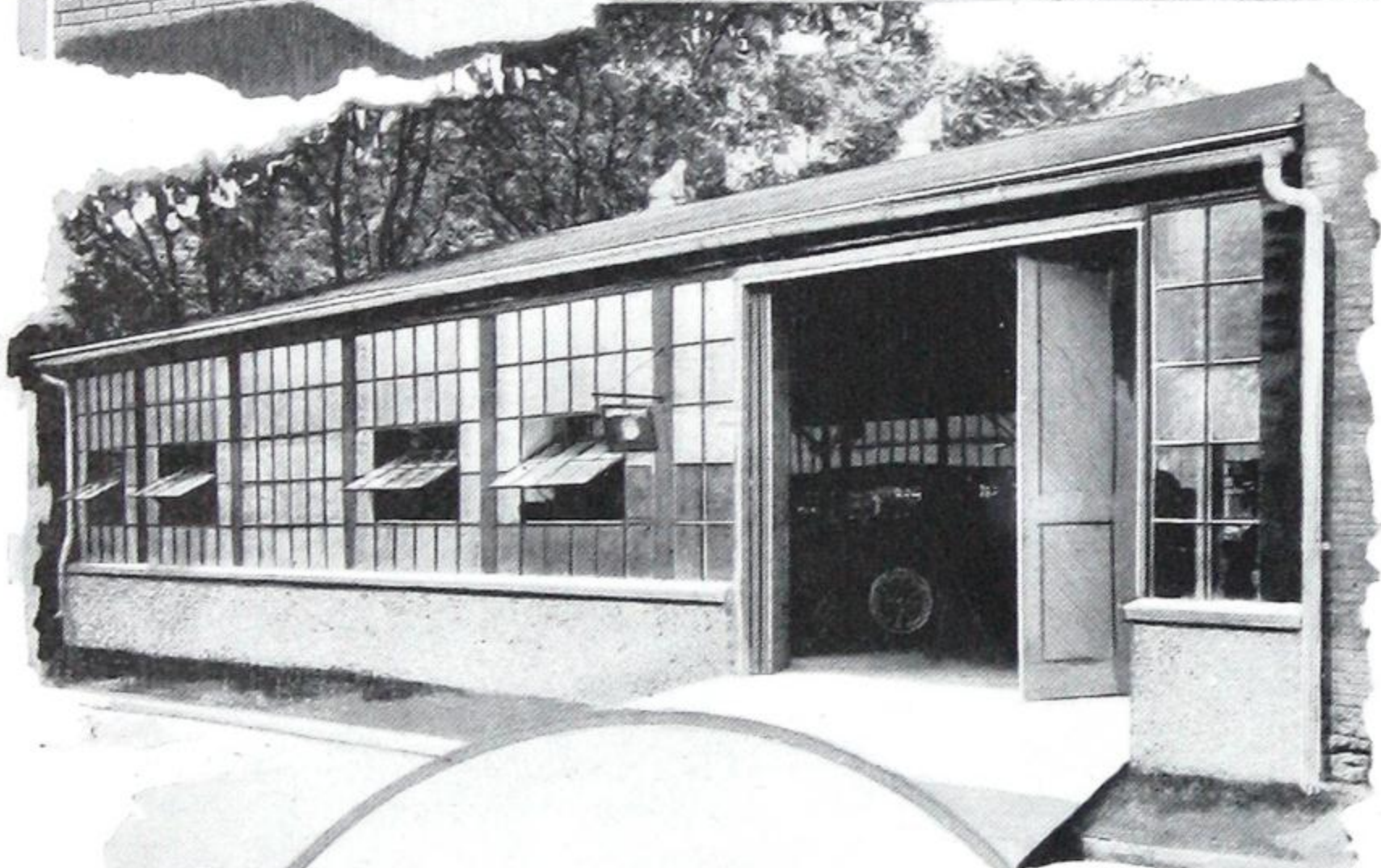
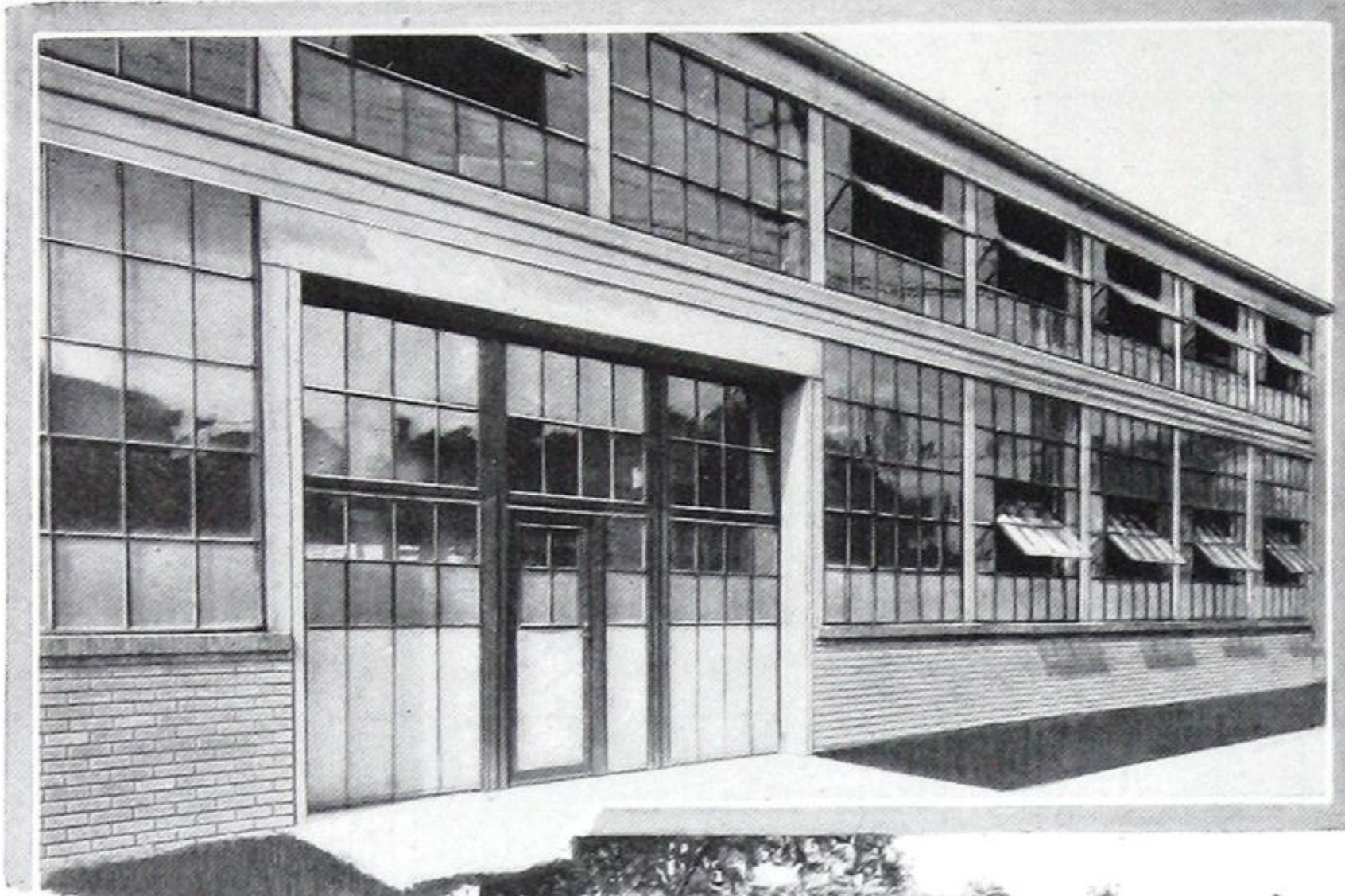
TRUSCON
STEEL WINDOWS

—TYPES AND SIZES—
TRUSCON STOCK & STANDARD WINDOWS
TRUSCON STEEL COMPANY. YOUNGSTOWN, OHIO.

A-1
FEB-1925

Curtain Walls of Steel, Stucco, Brick or Concrete

[FOR ALL TYPES OF TRUSCON BUILDINGS]



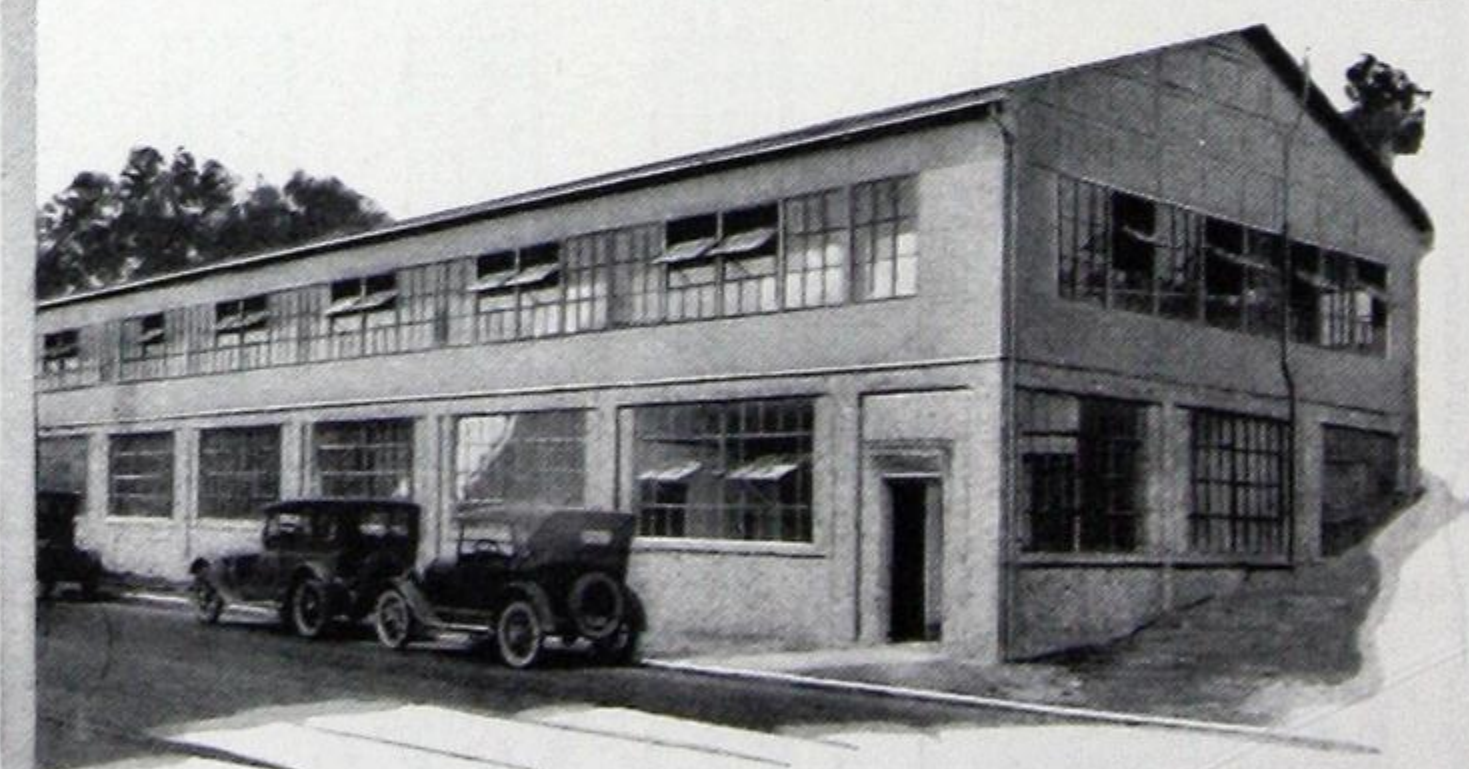
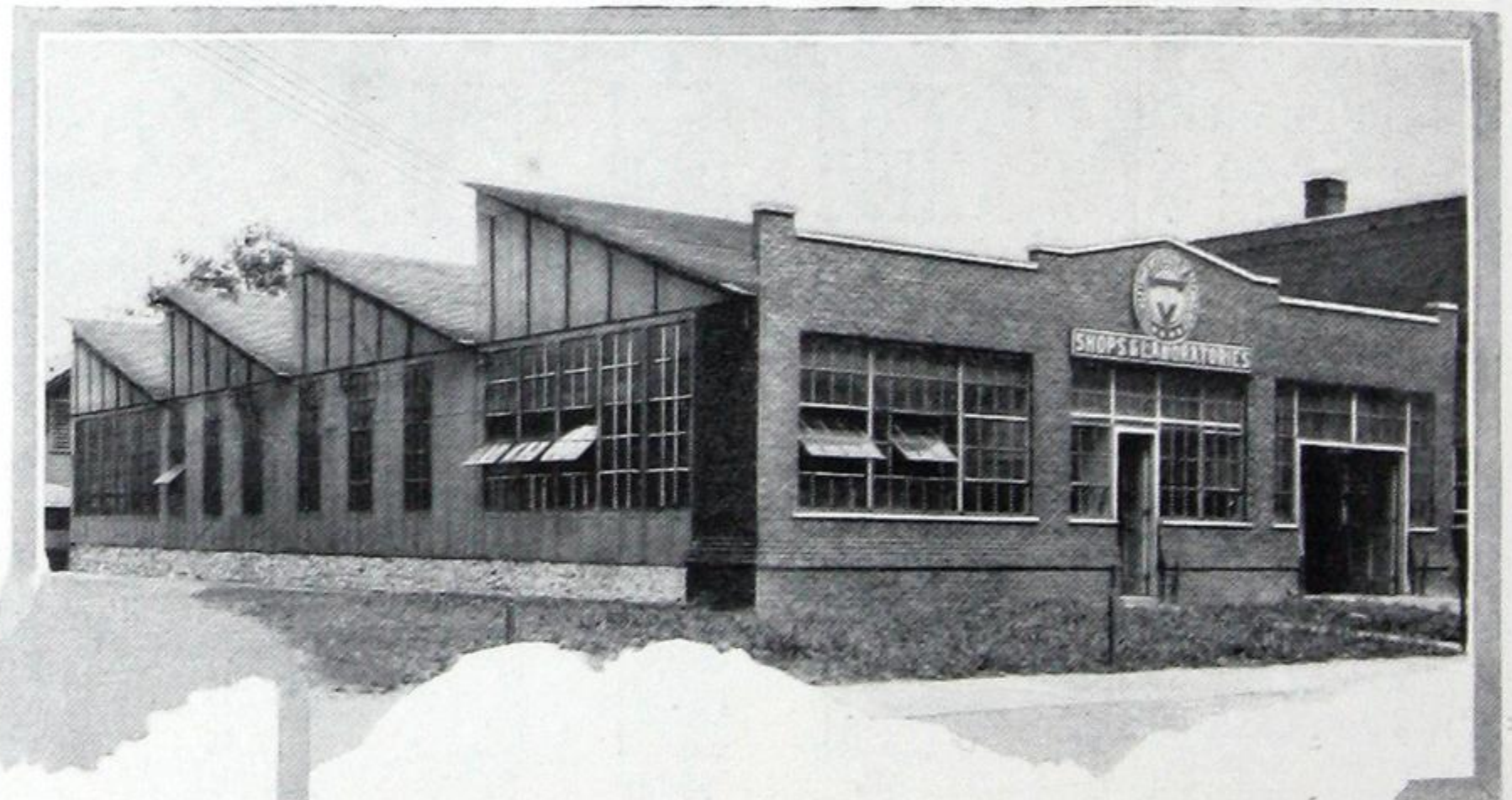
WHEN the curtain walls are of steel, standard panels are used. This construction besides being strong and permanent, permits 100% salvage in case the building is moved.

Curtain walls of cement stucco are built over Truscon Hy-Rib (page 28), or Truscon Diamond Lath (page 37). This construction results in an economical monolithic wall. Such a wall, so reinforced, is strong and rigid and will not crack from settling or other ordinary causes. Furthermore, the metal reinforcing lends to the cement stucco a uniform strength for withstanding concentrated impacts more successfully than ordinary walls.

Steel, stucco, concrete and brick curtain walls are available and used in the design of Truscon Buildings. "Which to use" is a question that can be solved only by a careful study of conditions, location and costs.

Truscon Engineering Service covers this advisory assistance.

THE ACCOMPANYING ILLUSTRATIONS SHOW THE VARIETY OF CURTAIN WALLS AND ARCHITECTURAL EFFECTS POSSIBLE WITH TRUSCON BUILDINGS



Endless Wall Combinations by Standardization

IN designing a Truscon Building any number of solid wall panels may be used in combination with any number of sidewall sash panels.

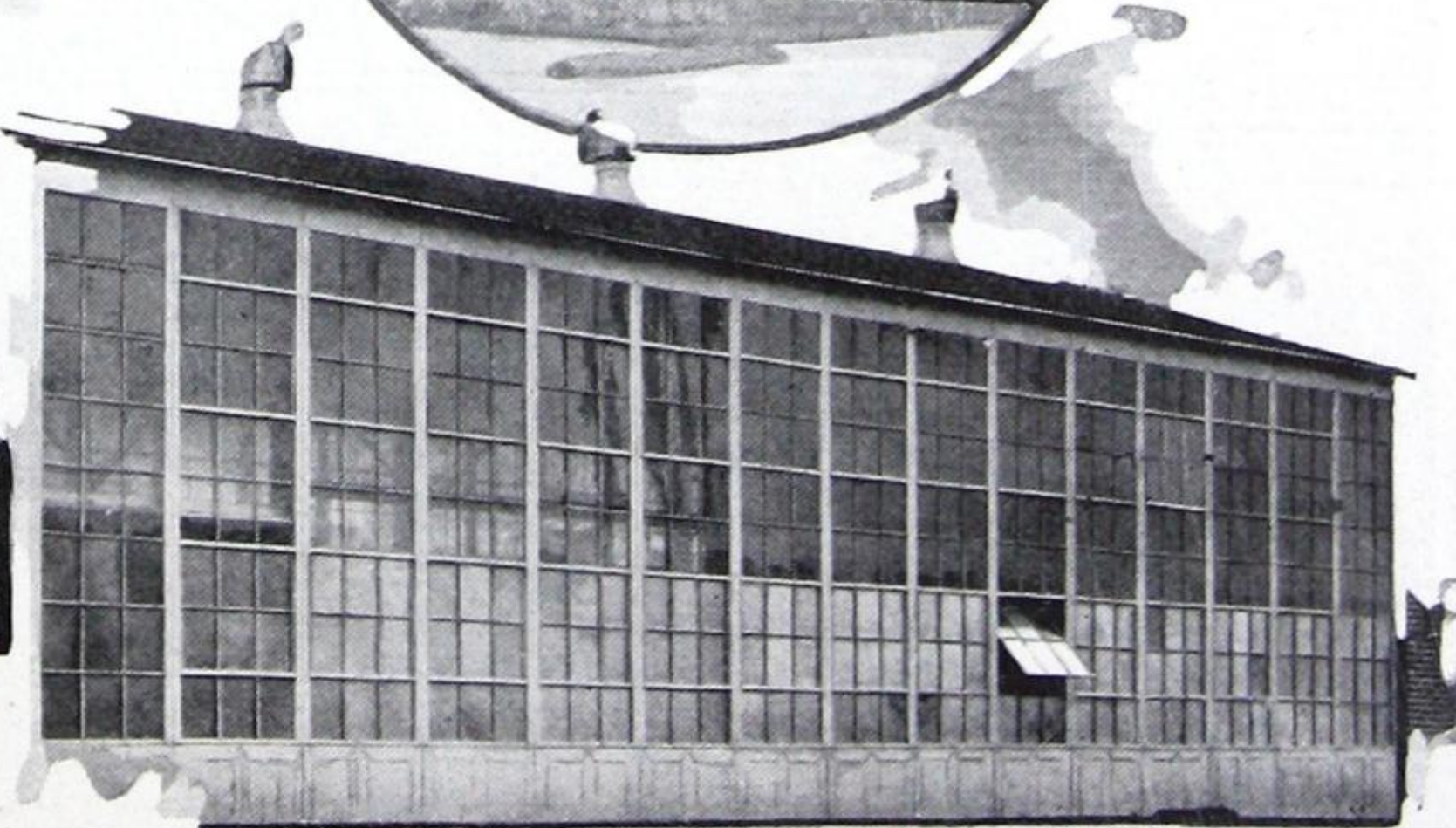
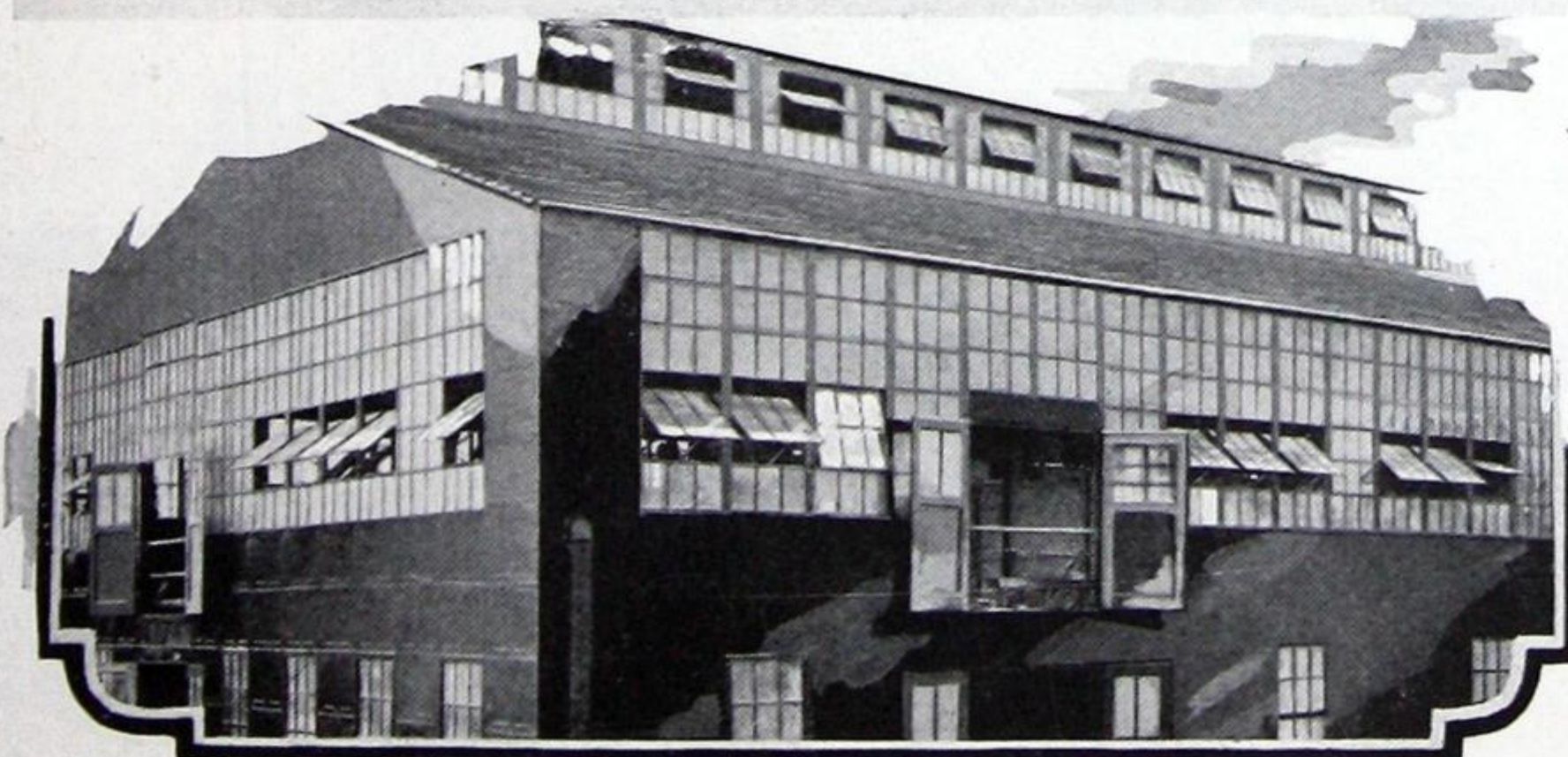
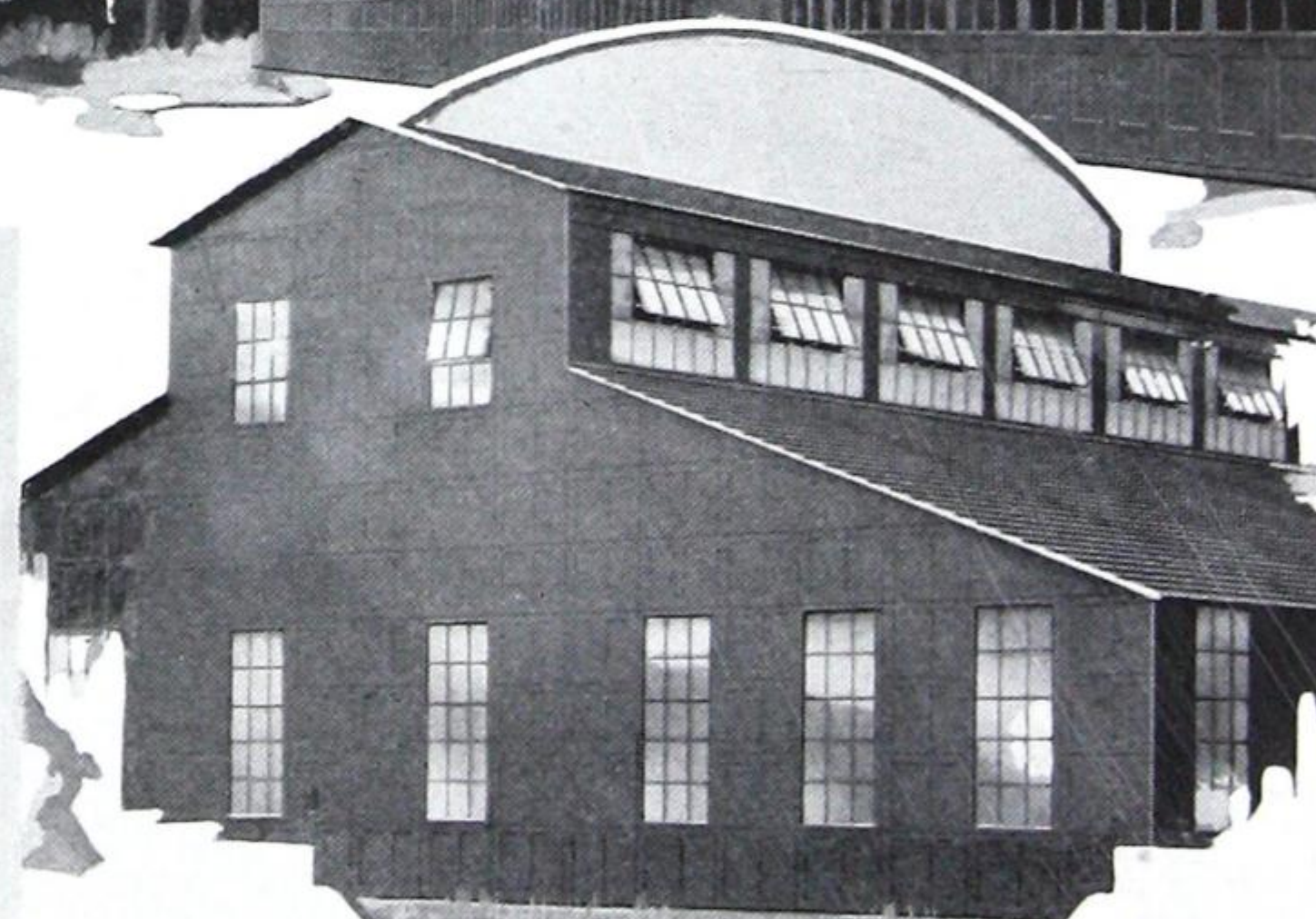
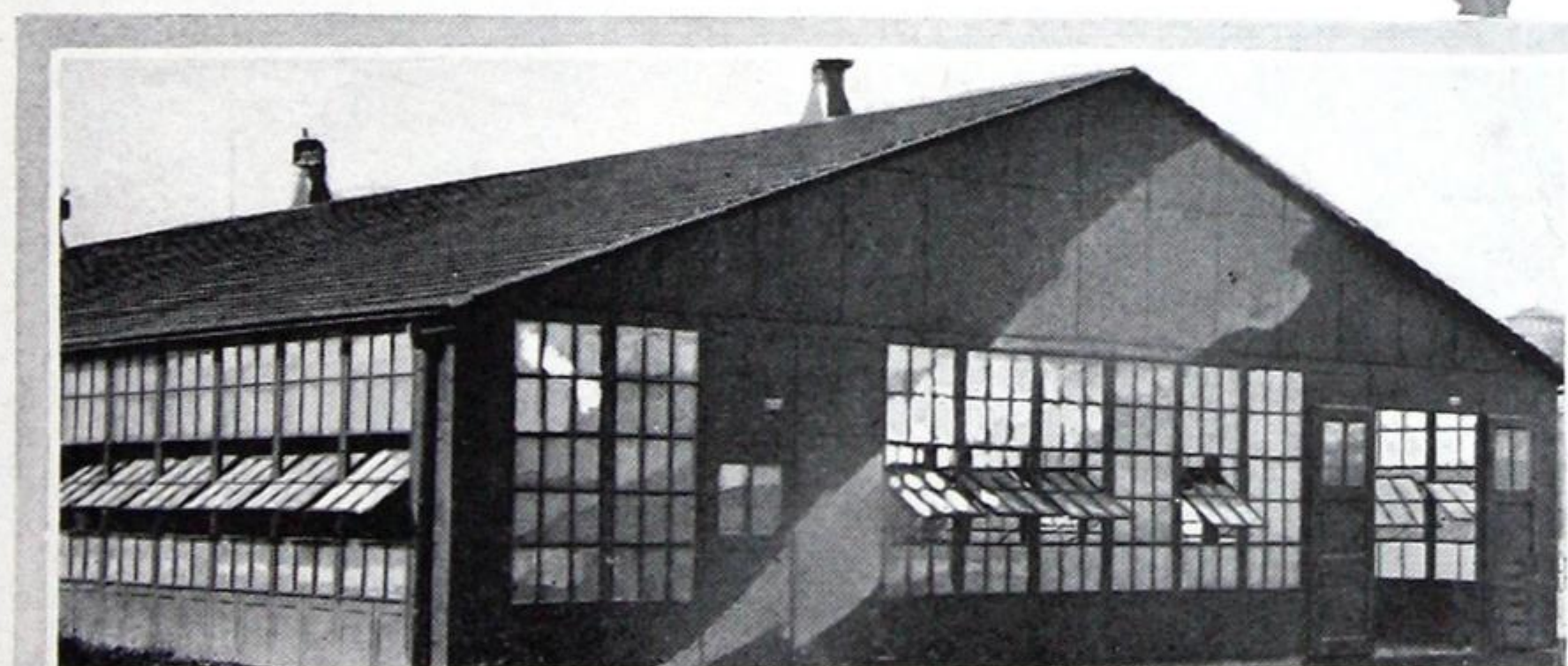
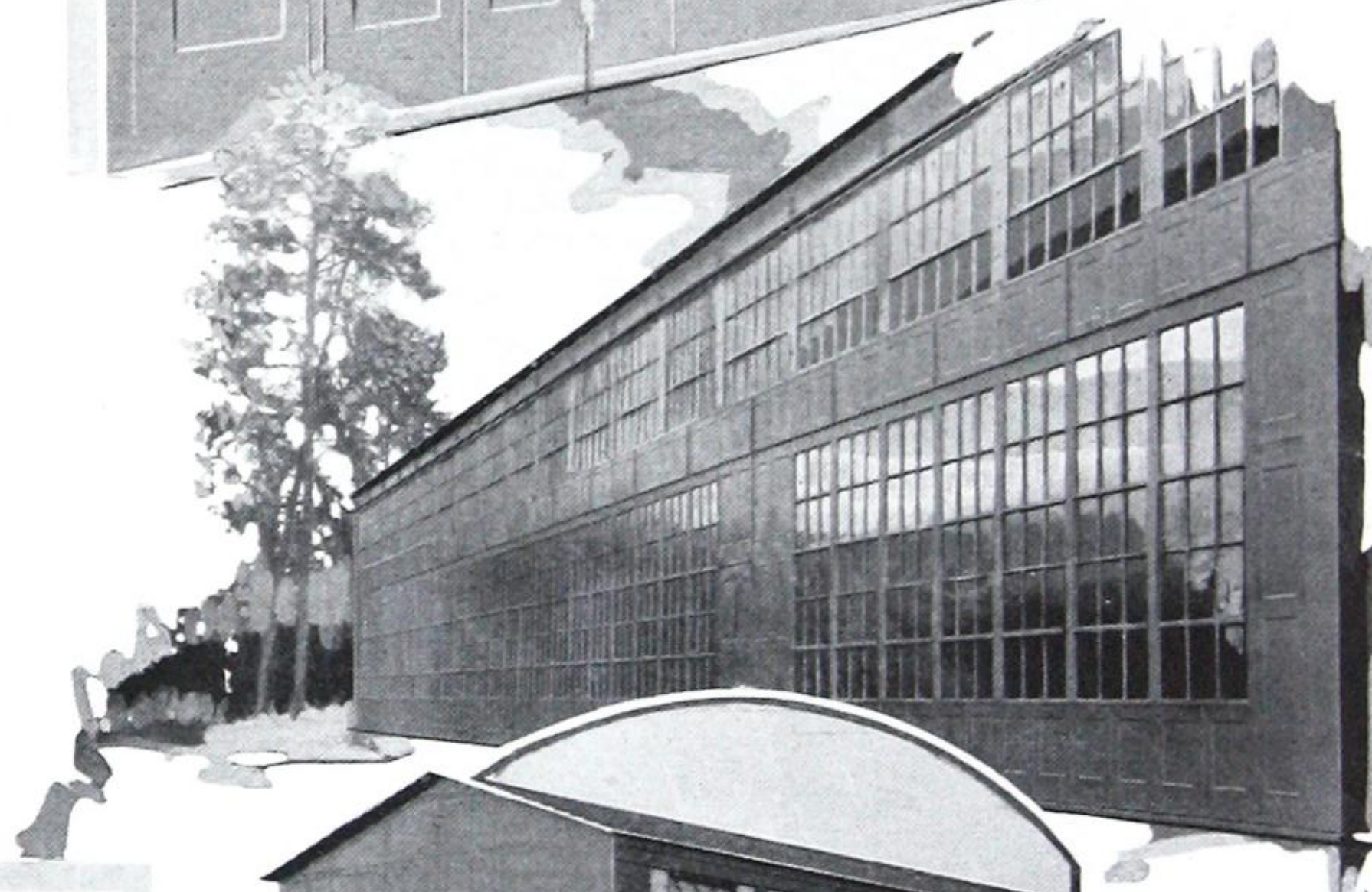
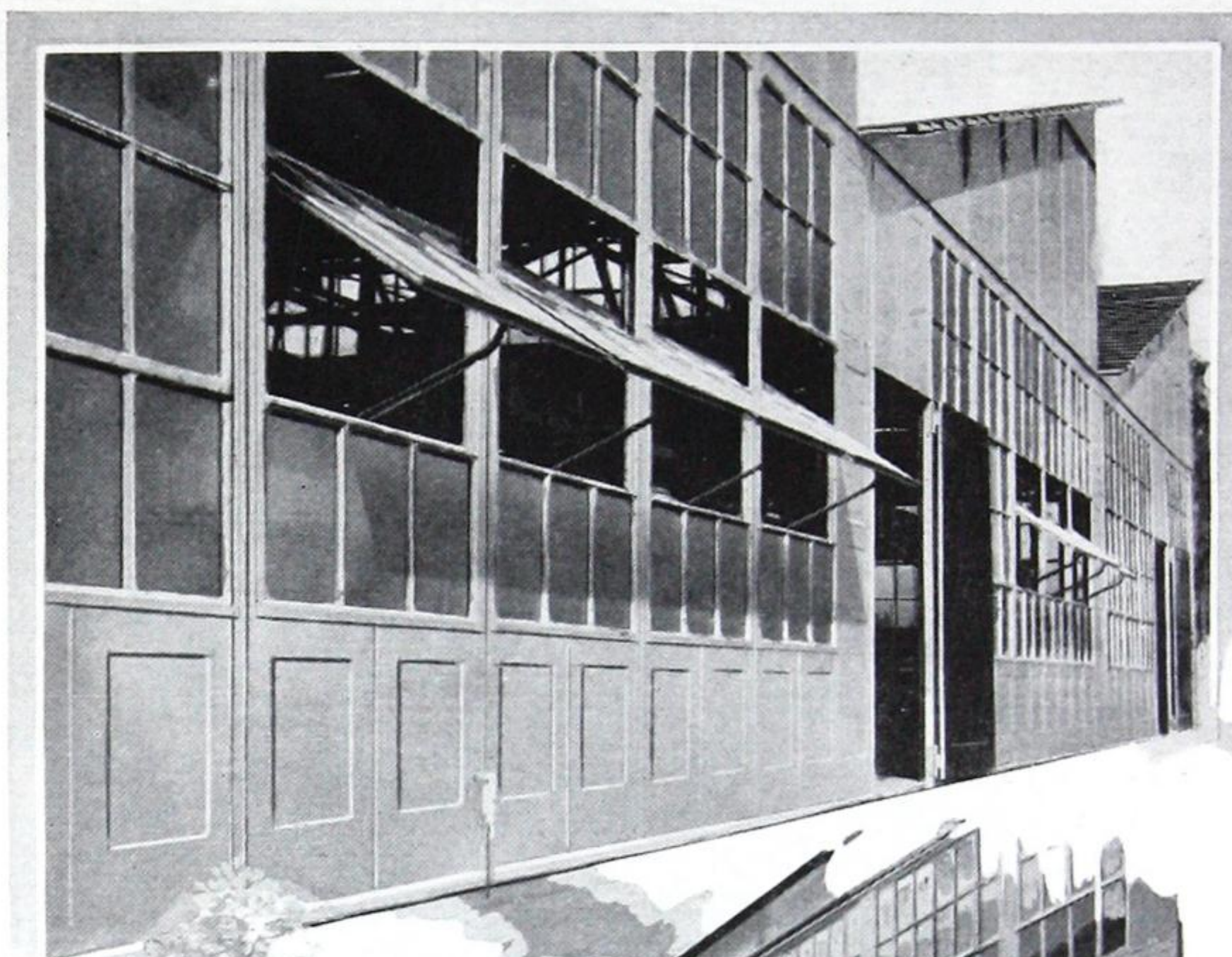
The number of possible arrangements is practically without limit. Just like the number of combinations possible on a checker-board which runs into millions.

Any amount of daylight and ventilation can be provided. When continuous light and ventilation are required around the four walls the problem can be easily solved with a curtain wall of concrete or masonry and sidewall sash above.

Ample light for bench work on all sides of the building can be provided and the purchaser is assured that, whatever combination is used, the resulting wall will be strong, rigid, weathertight and permanent. The sidewall combination of doors and windows will fit exactly the purpose for which the building is to be used. The 18 gauge copper bearing steel panels resist rust and corrosion, and reduce fire hazards to the minimum.

TRUSCON SOLID OR DAYLIGHT PANELS ARE OF STANDARDIZED DIMENSIONS, PERMITTING VERY EFFECTIVE COMBINATIONS AS ILLUSTRATED ON THIS PAGE

[FOR ALL TYPES OF TRUSCON BUILDINGS]



Standard Steel Doors

SWING AND SLIDING TYPES

STANDARD Truscon Steel Doors, Wall Panels and Frames are interchangeable. Thus, doorways may be placed anywhere in the steel walls of a Truscon Building. The doors are furnished in swing and sliding types, single, double, jackknife or in any type combinations. Upper panels may be of glass or solid.

Truscon Standard Steel Doors are manufactured from formed rails of copper steel. They are firesafe, permanent, and withstand rough usage. Nor will these doors warp or swell; ease of operation is assured. Corners are welded and internally reinforced against sagging.

The doors are factory fitted to their frames and delivered as complete units, fully equipt with suitable hardware. Volume production keeps them low in cost; complete stocks facilitate quick delivery.

They are used everywhere, in all kinds of buildings. They are heavy, rigidly made, and cost no more than a good grade of wooden door.

FIG. 1.



FIG. 2.



FIG. 3.

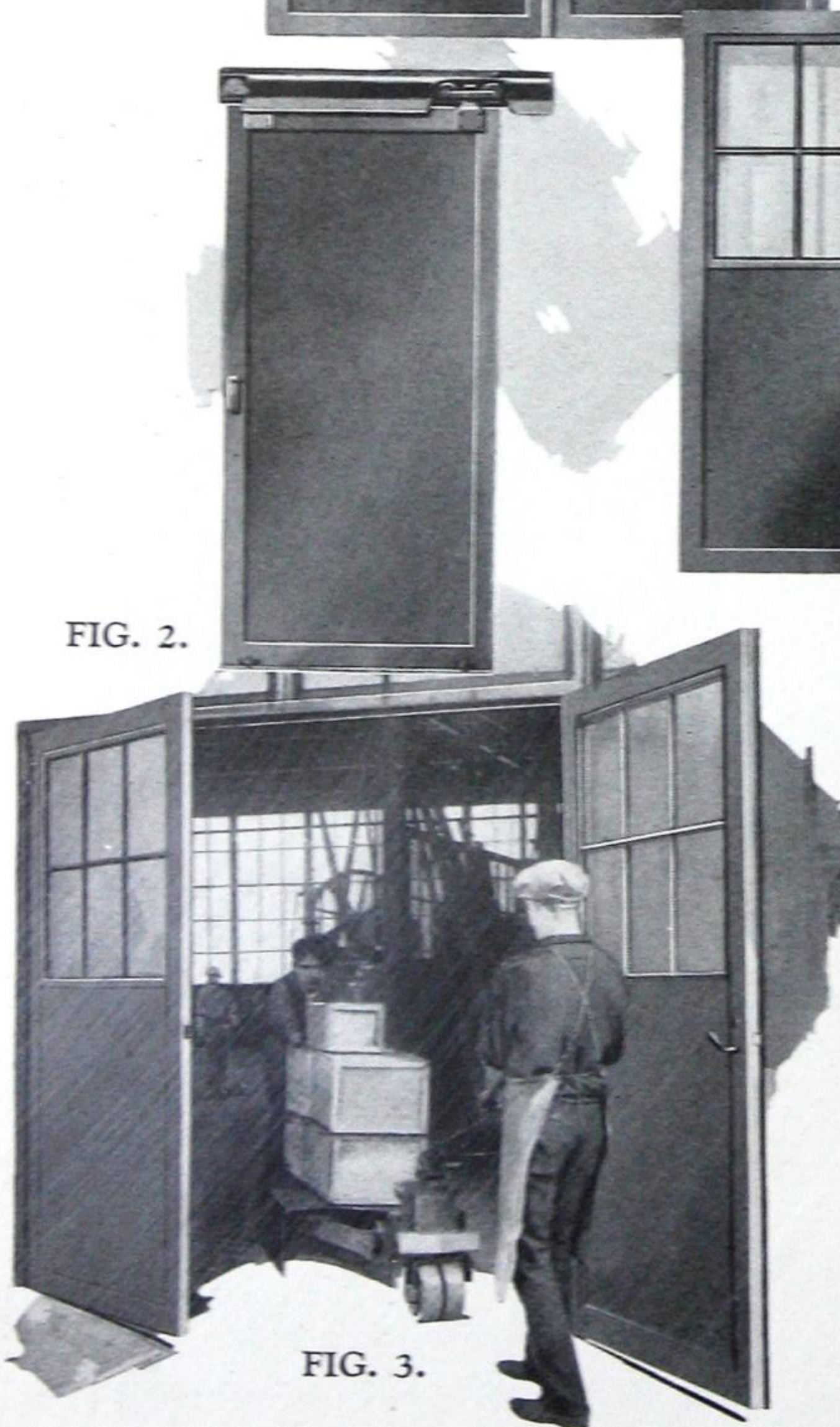
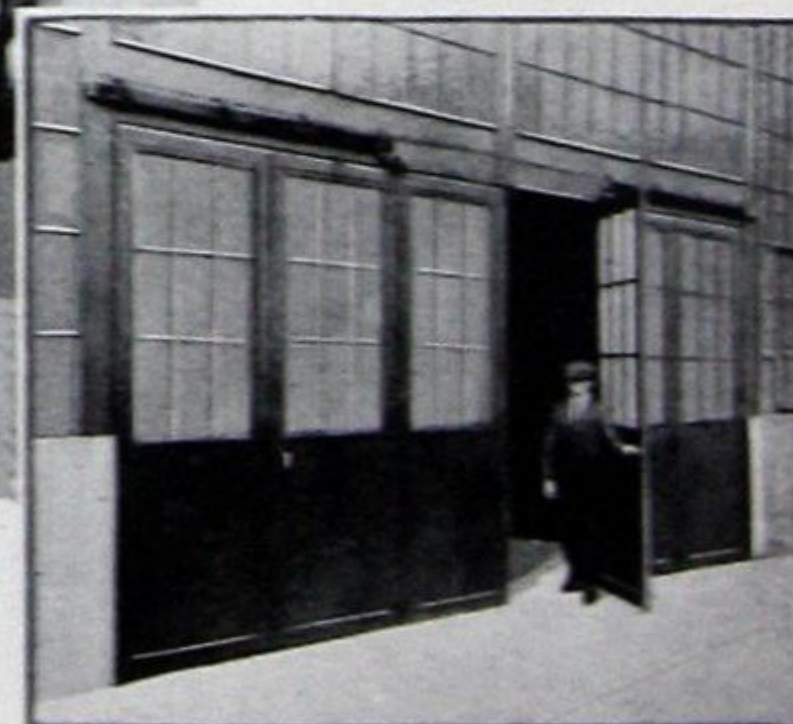
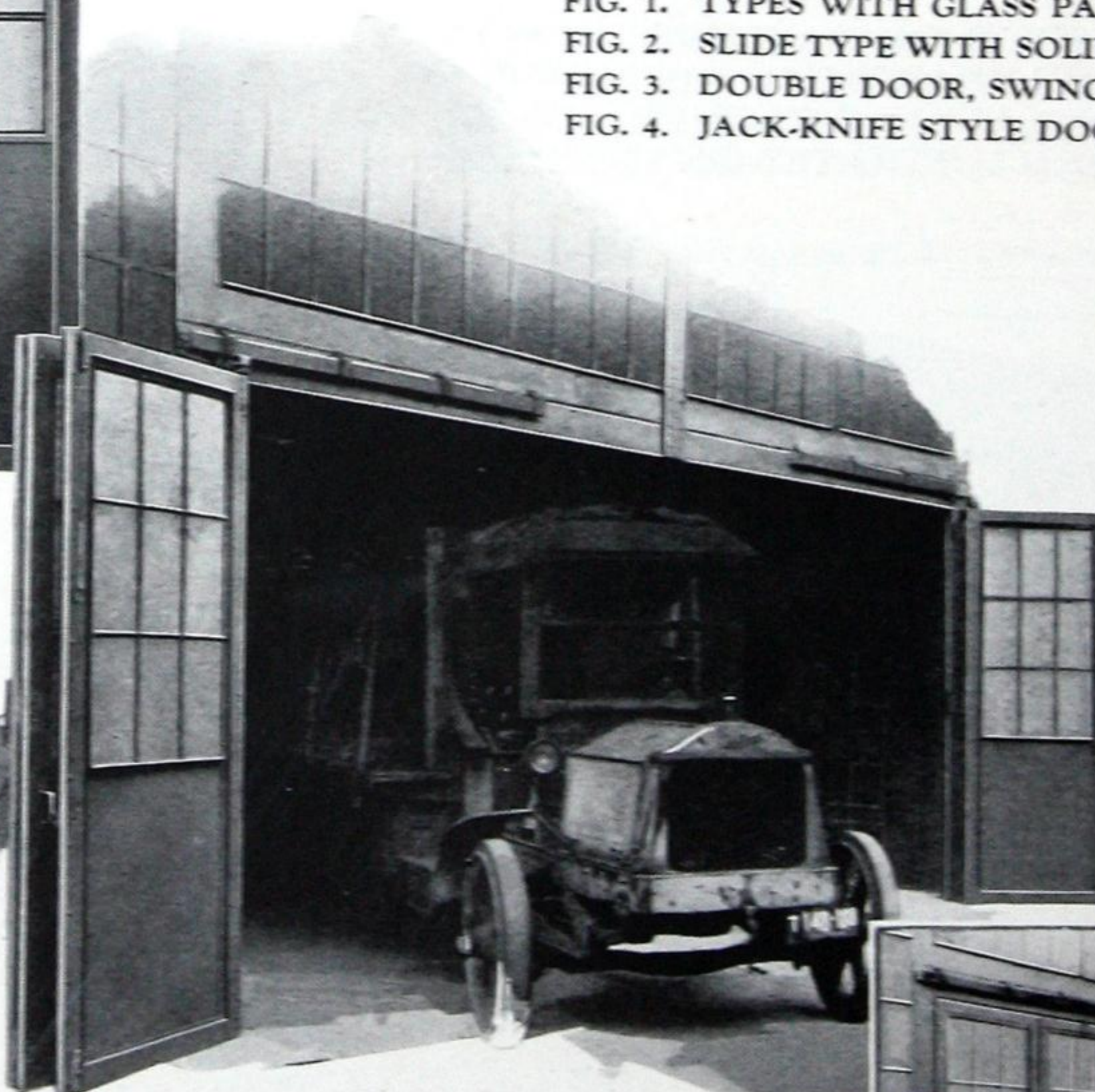


FIG. 1. TYPES WITH GLASS PANELS
FIG. 2. SLIDE TYPE WITH SOLID PANEL
FIG. 3. DOUBLE DOOR, SWING TYPE
FIG. 4. JACK-KNIFE STYLE DOOR

FIG. 4.



Seamless Tubular Doors

FOURFOLD TYPE

TRUSCON Seamless Tubular Rail Steel Doors, a fourfold type, were designed to successfully meet the extraordinary requirements of large openings. Exceptional strength is needed for this service. Their construction insures a rigidity, that vibration cannot impair, and they are built to be operated by one person. These doors are delivered equipt with suitable hardware.

Not only does this fourfold type steel door fold back, completely clearing the opening, but it stays open or shut as desired, regardless of strong winds.

The copper steel construction of Truscon Seamless Tubular Rail Doors resists rust and is unaffected by the corrosive influences of smoke and fumes.

Standardization develops notable economies in the production of Truscon Railroad Doors. They are sold at prices which make the use of any other type of door impracticable and expensive.

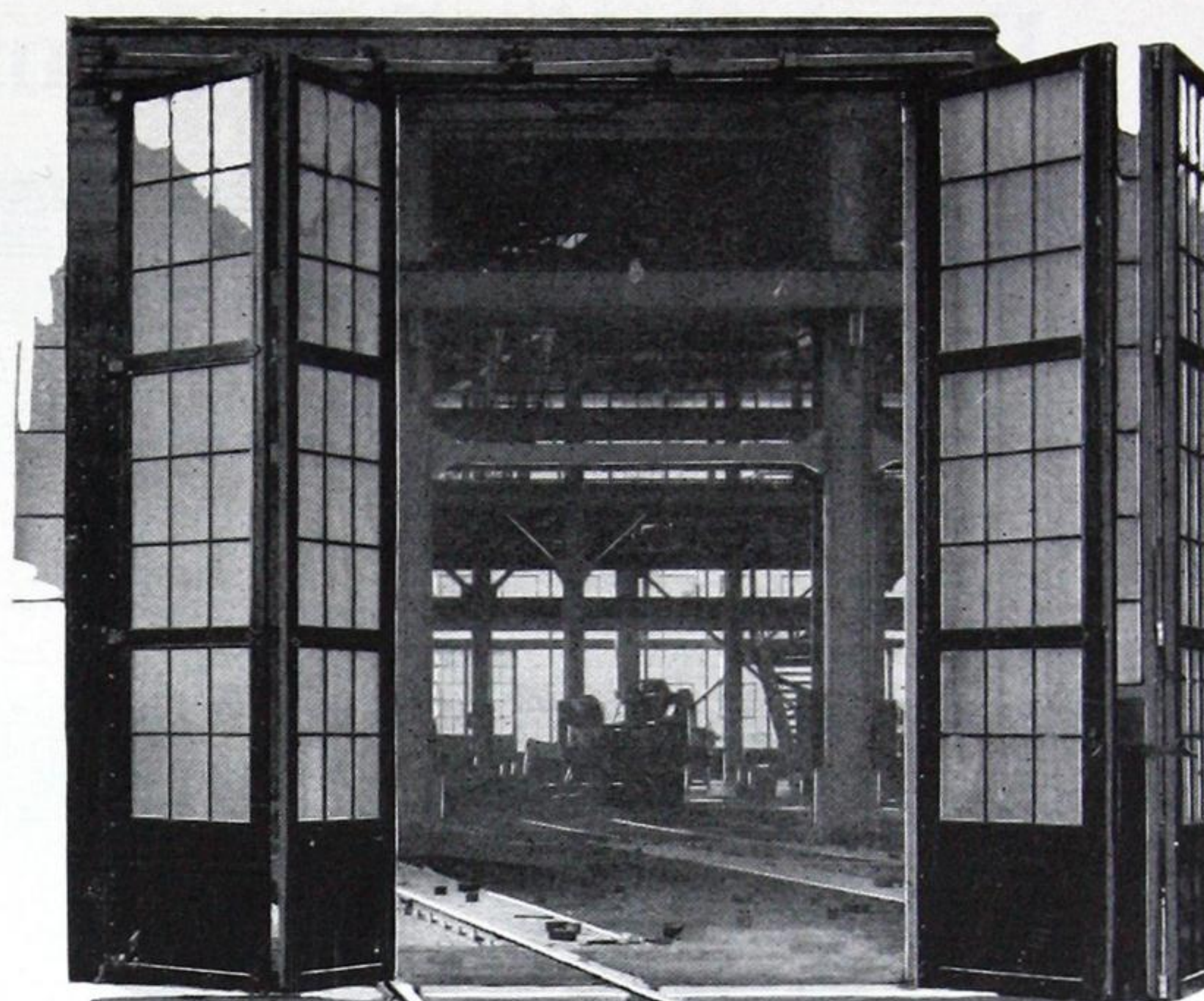


FIG. 1.

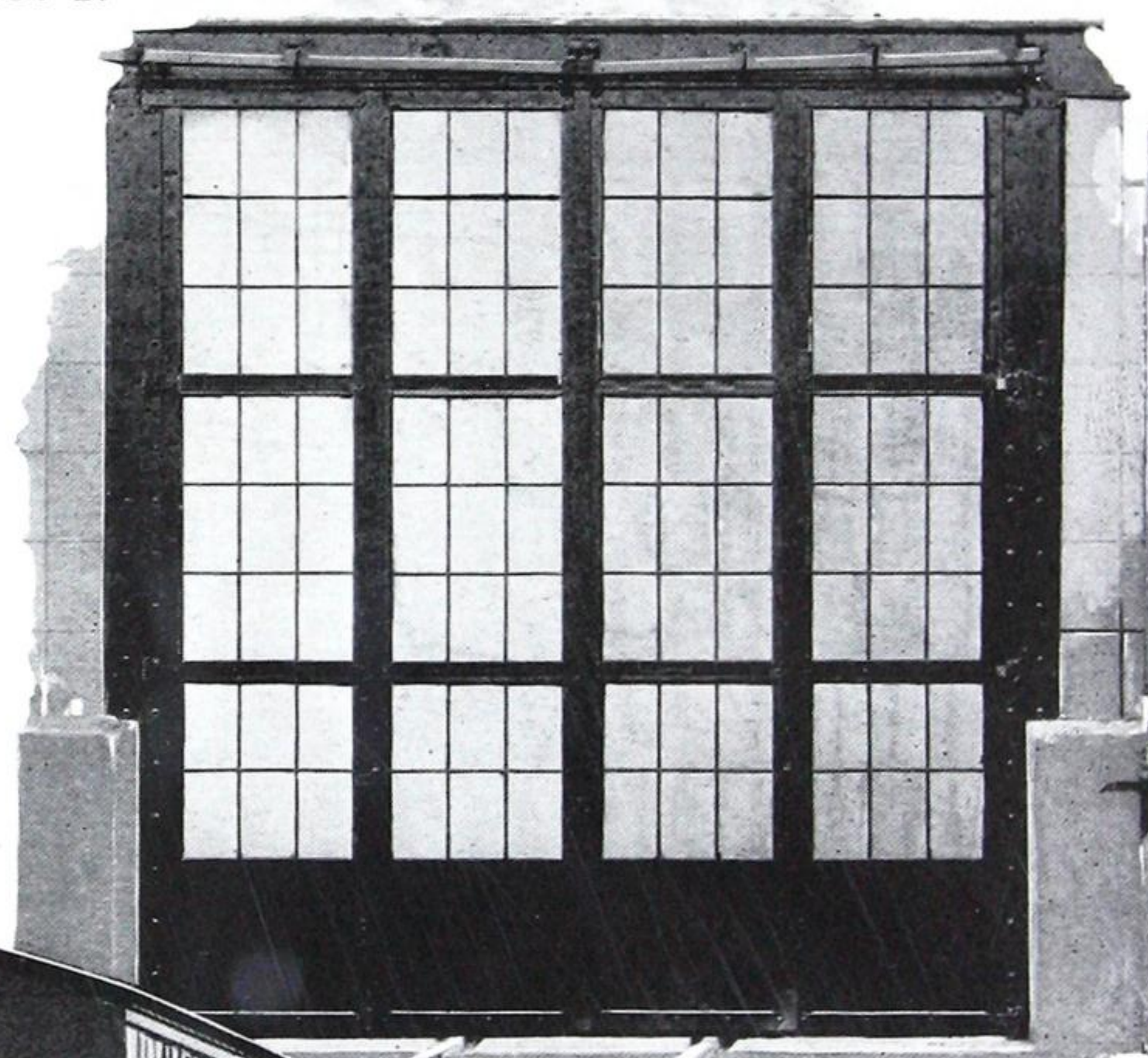


FIG. 2.

FIG. 1. A TRUSCON SEAMLESS TUBULAR DOOR STAYS OPEN OR SHUT AS DESIRED

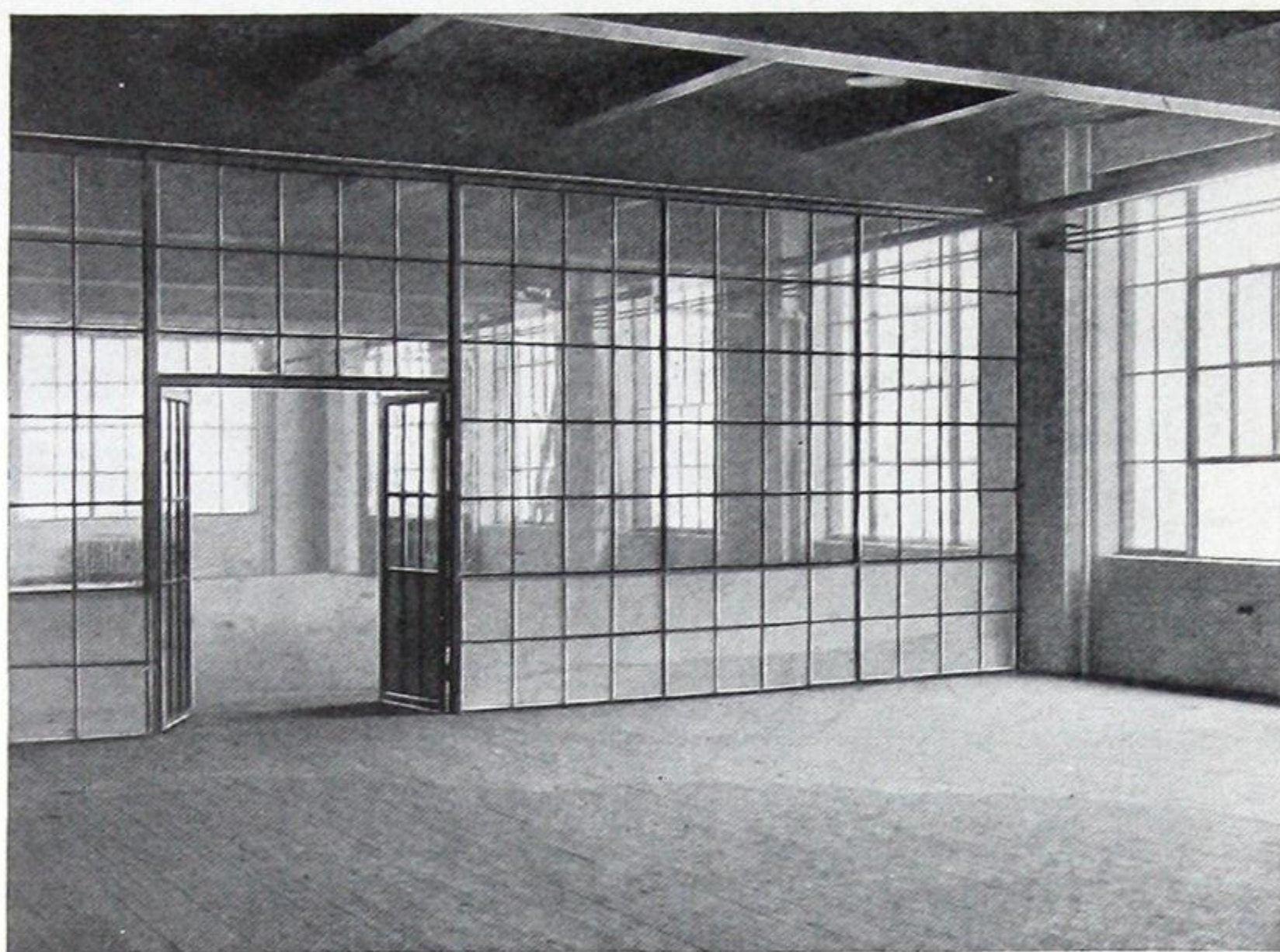
FIG. 2. ACCURATELY FITTED DOORS WITH A LARGE GLASS AREA

FIG. 3. STRONG DOORS FOR LARGE OPENINGS IN A TRUSCON BUILDING OPERATED BY ONE MAN

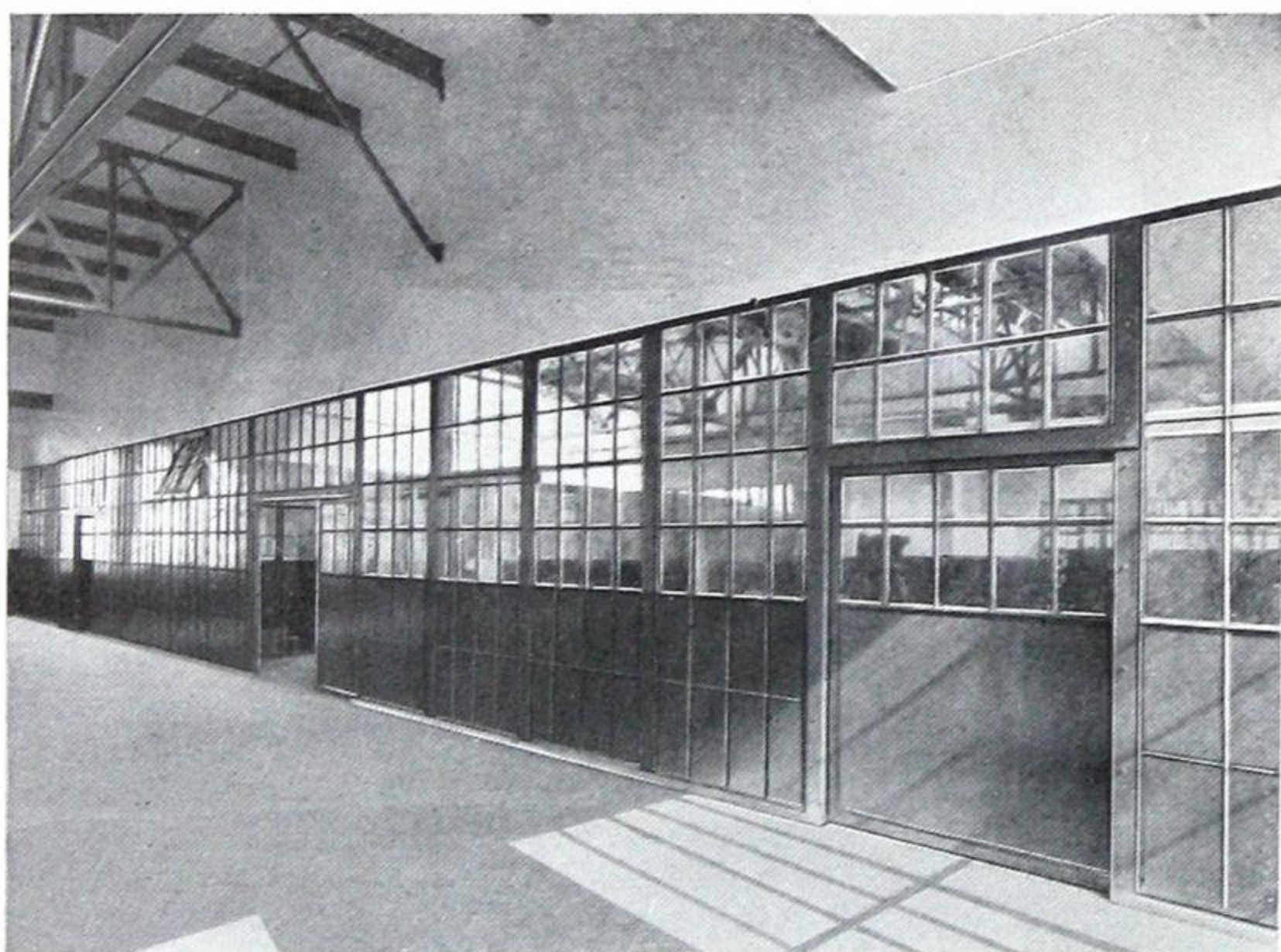


FIG. 3.

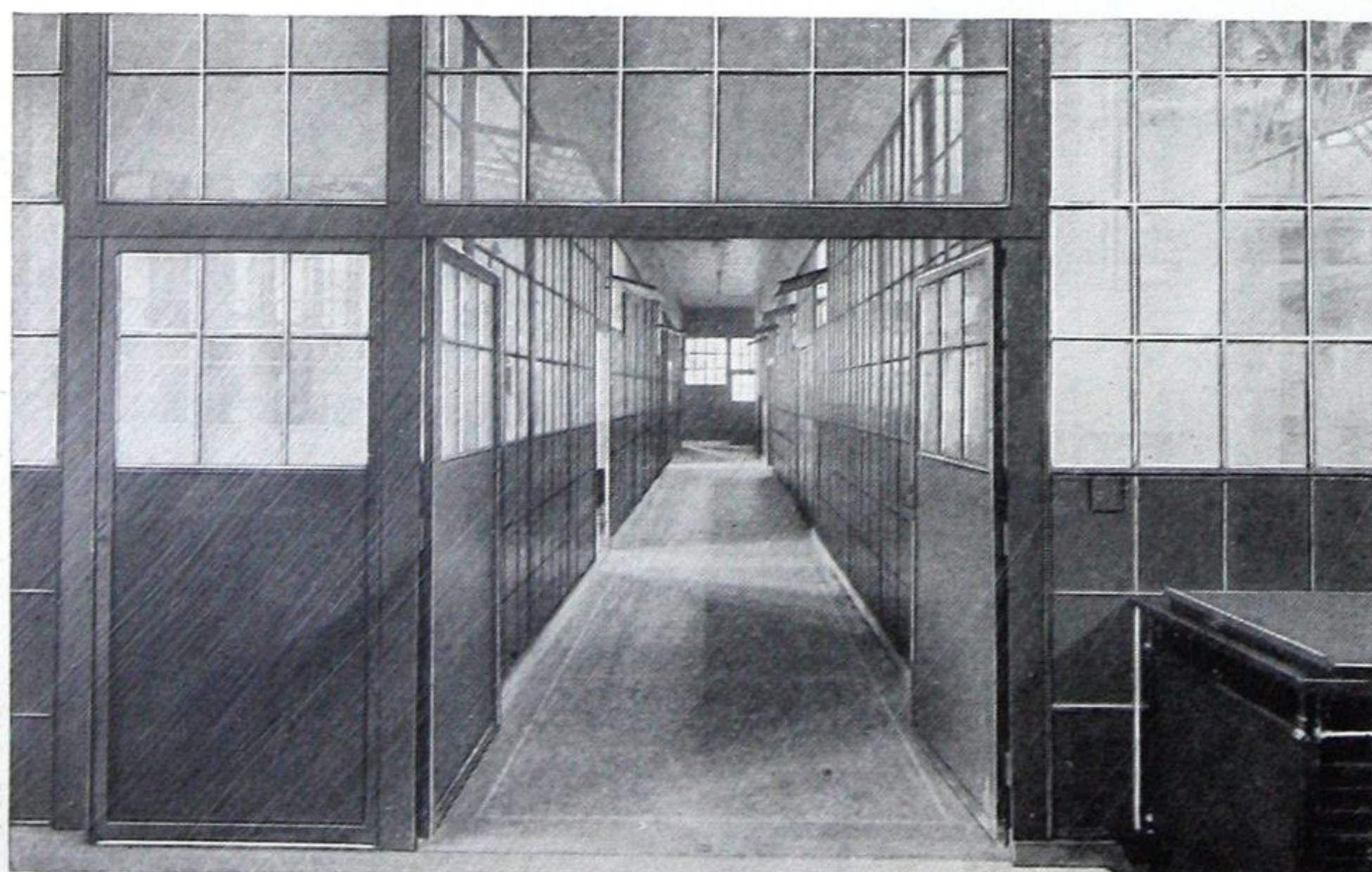
Partitions of Truscon Standard Stock Sash



DAYLIGHT PARTITIONS



PARTITIONS OF SASH AND REINFORCED PLASTER



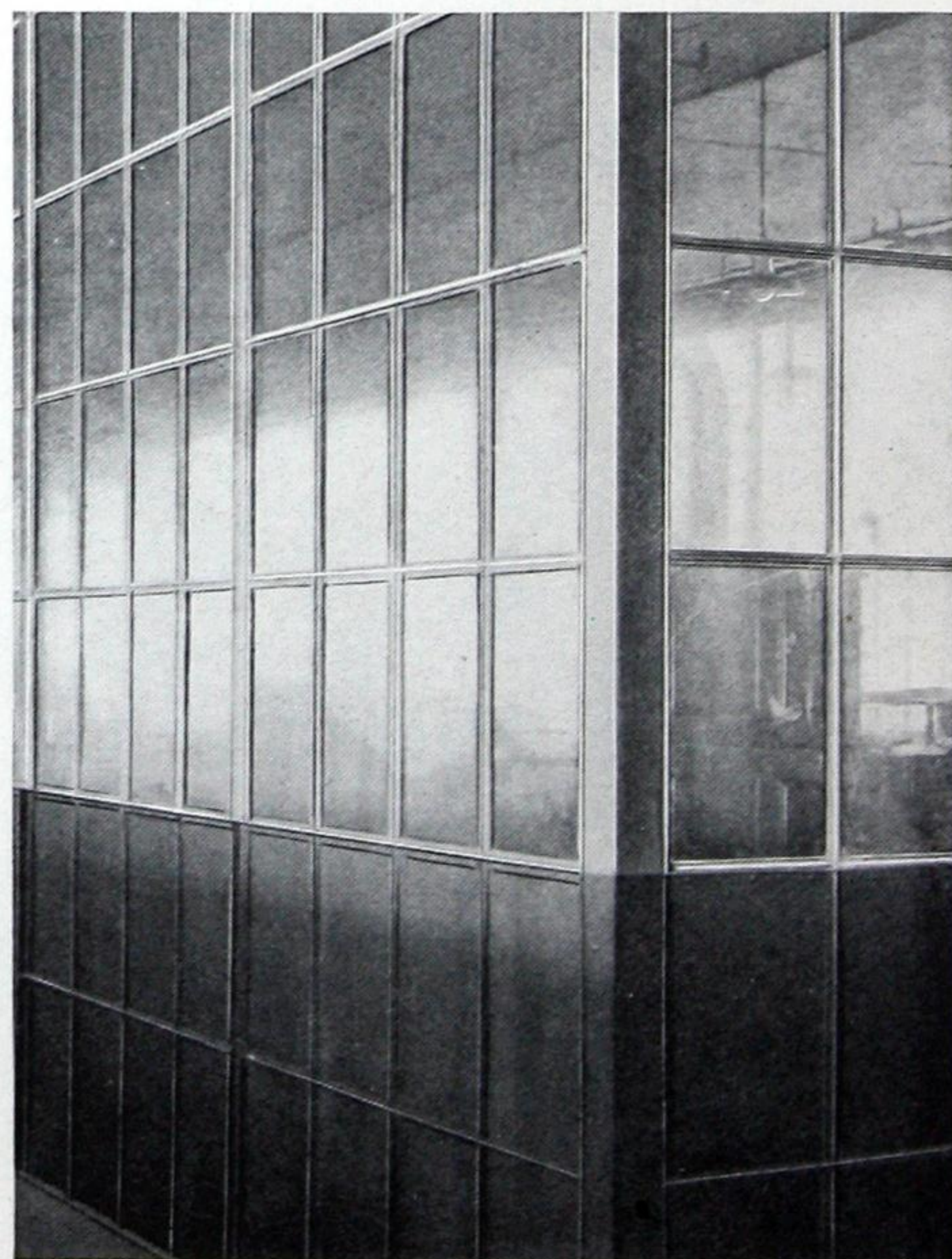
THE construction of partitions with Truscon Standard Stock Sash has many important advantages. As shown in the accompanying illustrations they make possible any desired combination of glass and steel panels.

The factory, the warehouse, the office can be quickly and inexpensively divided into light, airy rooms and passages with partitions that are serviceable, attractive, and occupy a minimum of floor space.

If carried to the ceiling they have a remarkable degree of soundproofness. When used in combination with pivoted steel windows they offer complete natural ventilation.

Still another advantage offered by Truscon Stock Sash partitions is their flexibility. Quickly erected, they are just as quickly taken down, moved and set up in a new position.

The entire layout of an office or warehouse can be completely changed on short notice and with a minimum of expense. And the partitions remain entirely permanent—strong, rigid and economical.



TRUSCON PARTITIONS OCCUPY A MINIMUM OF FLOOR SPACE

Reinforced Partitions and Walls

EASILY FITTED AROUND OBSTRUCTIONS

TRUSCON manufactures a complete line of steel reinforcing material for plastered partitions and walls.

Truscon 1-A Metal Lath (Fig. 2) is a perfect plaster base that insures firesafe, crackless partitions and walls.

Both Hy-Rib (Fig. 1) and Diamond Lath (Fig. 3) are used for erecting inexpensive hollow partitions (Fig. 5).

Truscon Channels (Figs. 6 and 7) in standard sizes that have a wide application (Fig. 4).

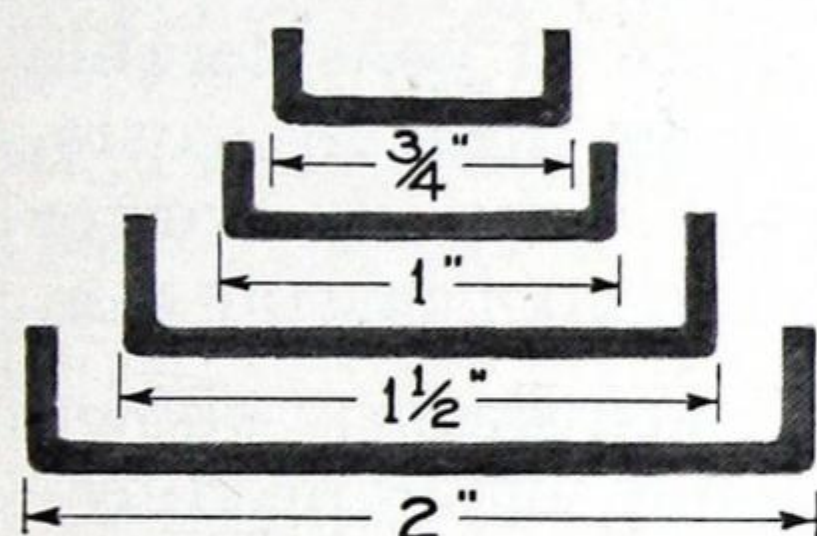


FIG. 7.
COLD
ROLLED
CHANNELS

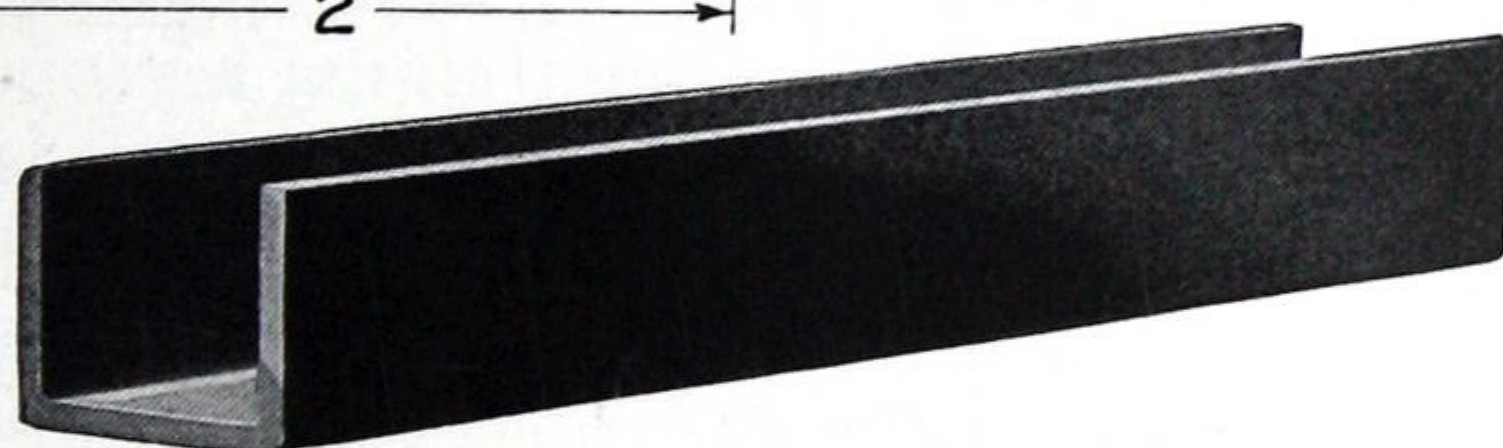


FIG. 6. TRUSCON SQUARE CHANNELS

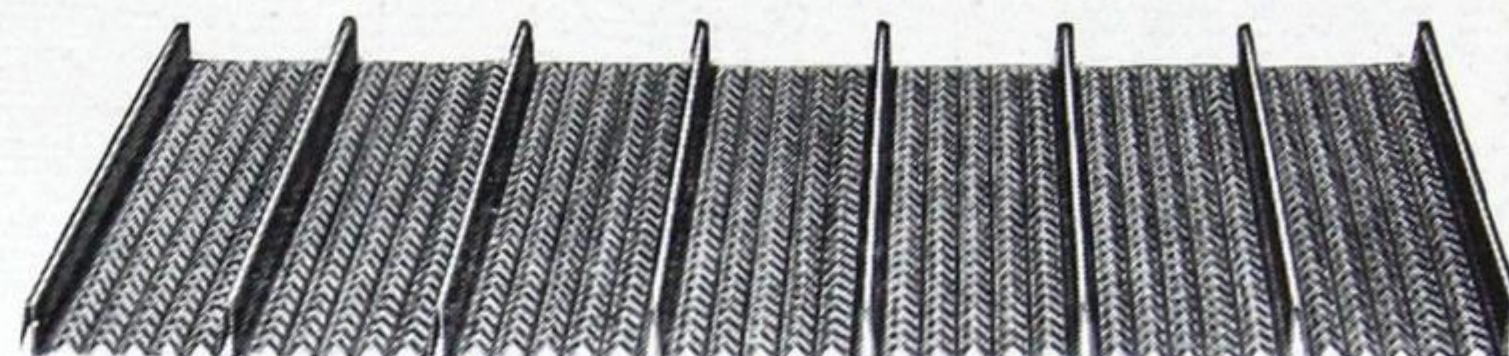


FIG. 1. TRUSCON $\frac{3}{8}$ " HY-RIB

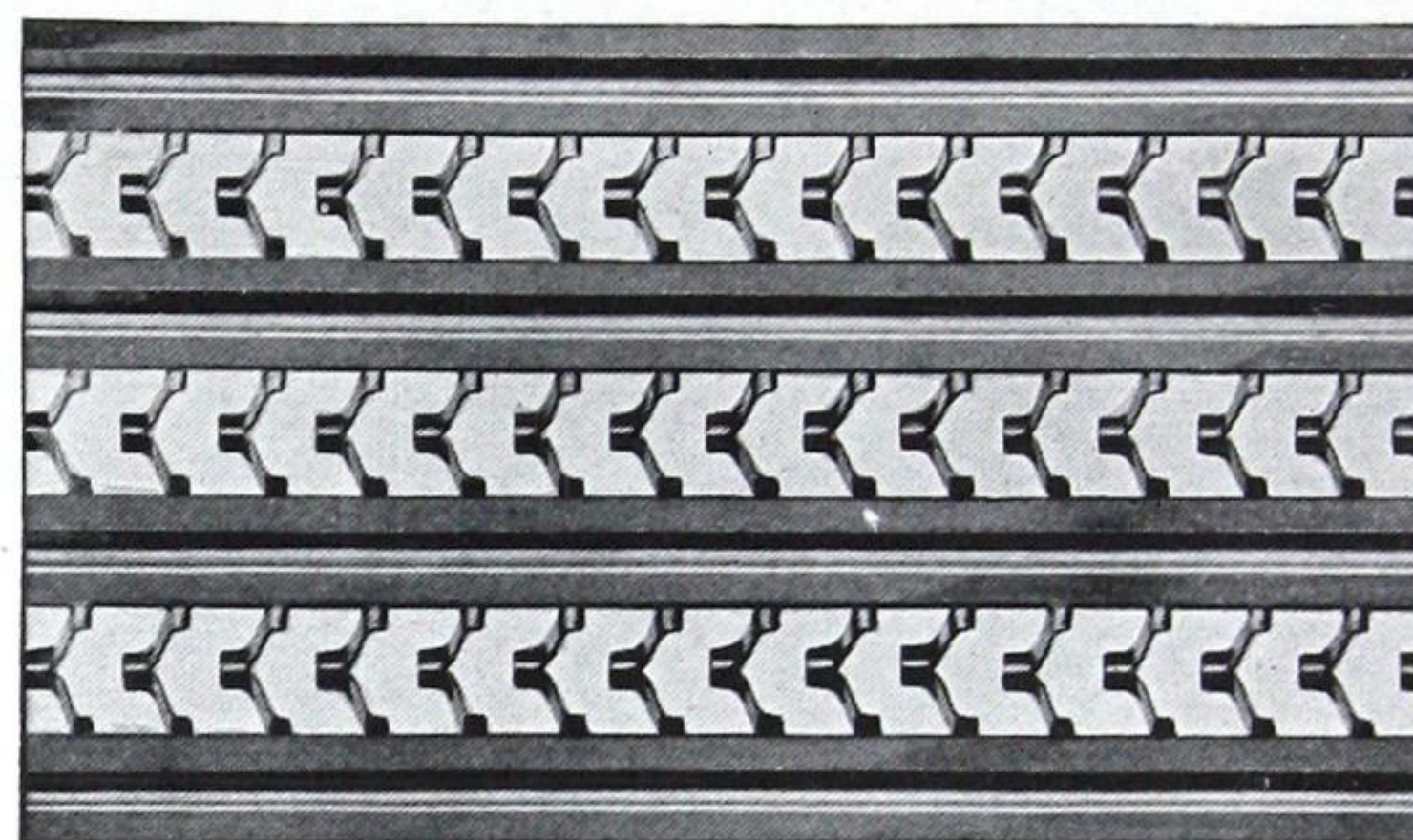


FIG. 2. TRUSCON 1-A METAL LATH

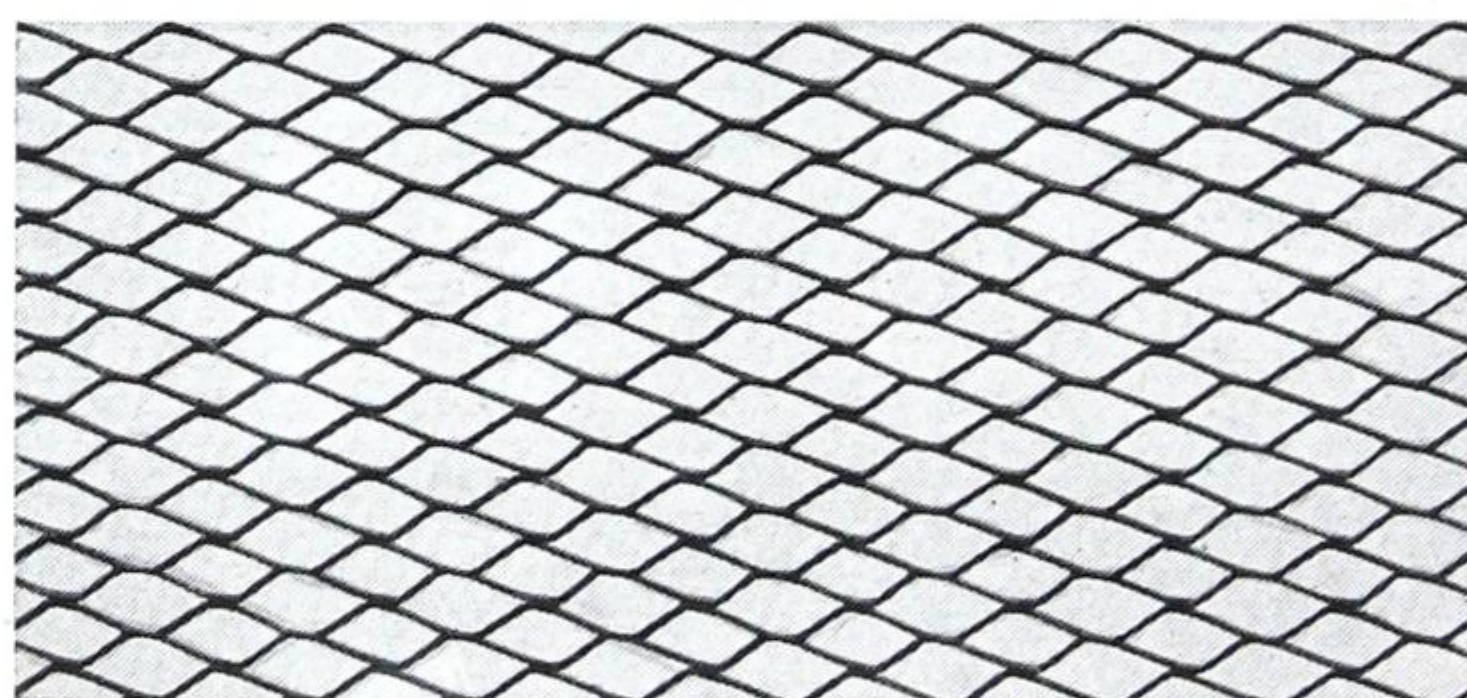


FIG. 3. TRUSCON DIAMOND LATH

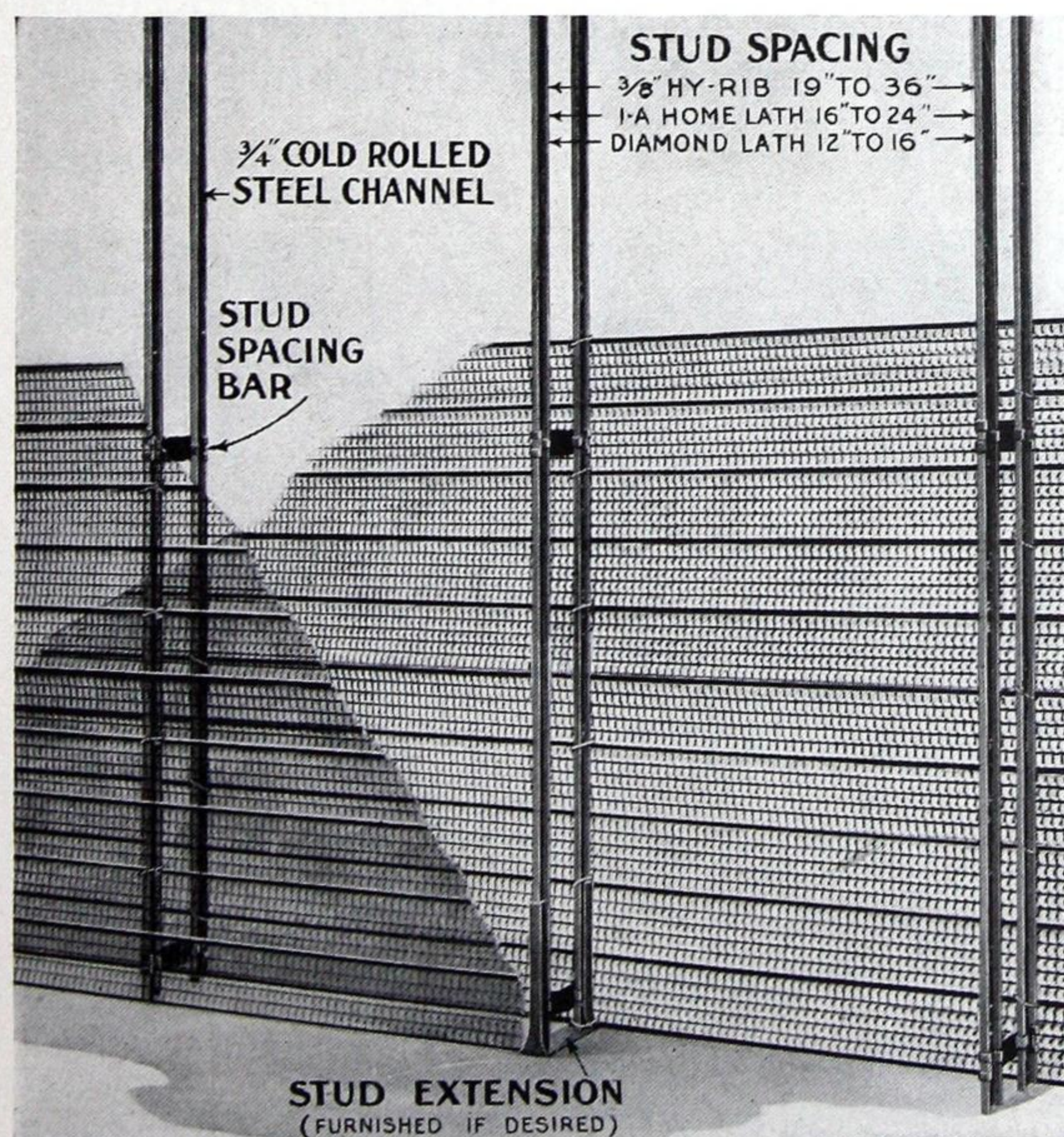


FIG. 5. HOLLOW HY-RIB PARTITION

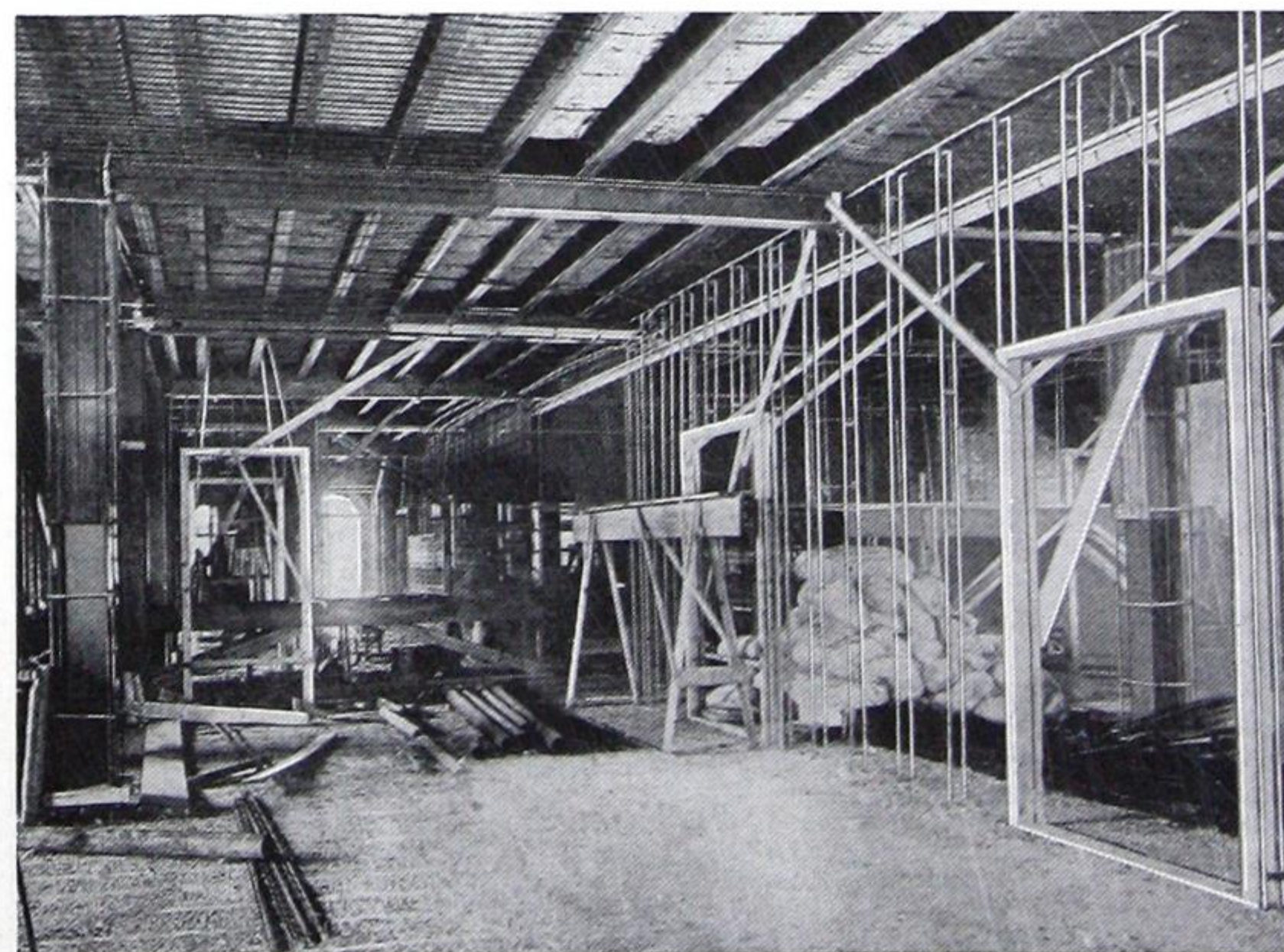


FIG. 4. SQUARE CHANNELS AS STUDS

Heating and Ventilating Truscon Buildings



STANDARD heating practices for Truscon Buildings favor localized unit systems. These systems have proven most efficient in producing a uniformly comfortable working environment, and their operation and maintenance is most economical. The installation costs are conspicuously less than any other practical system.

Of course, Truscon does not furnish heating units, but Truscon experience can prove of value in laying before you the conclusions of many owners of Truscon Buildings.

The weathertight construction of Truscon Buildings is in itself an item of considerable importance in keeping down heating costs. Roof insulation conserves heat in winter besides making the building cool in summer.

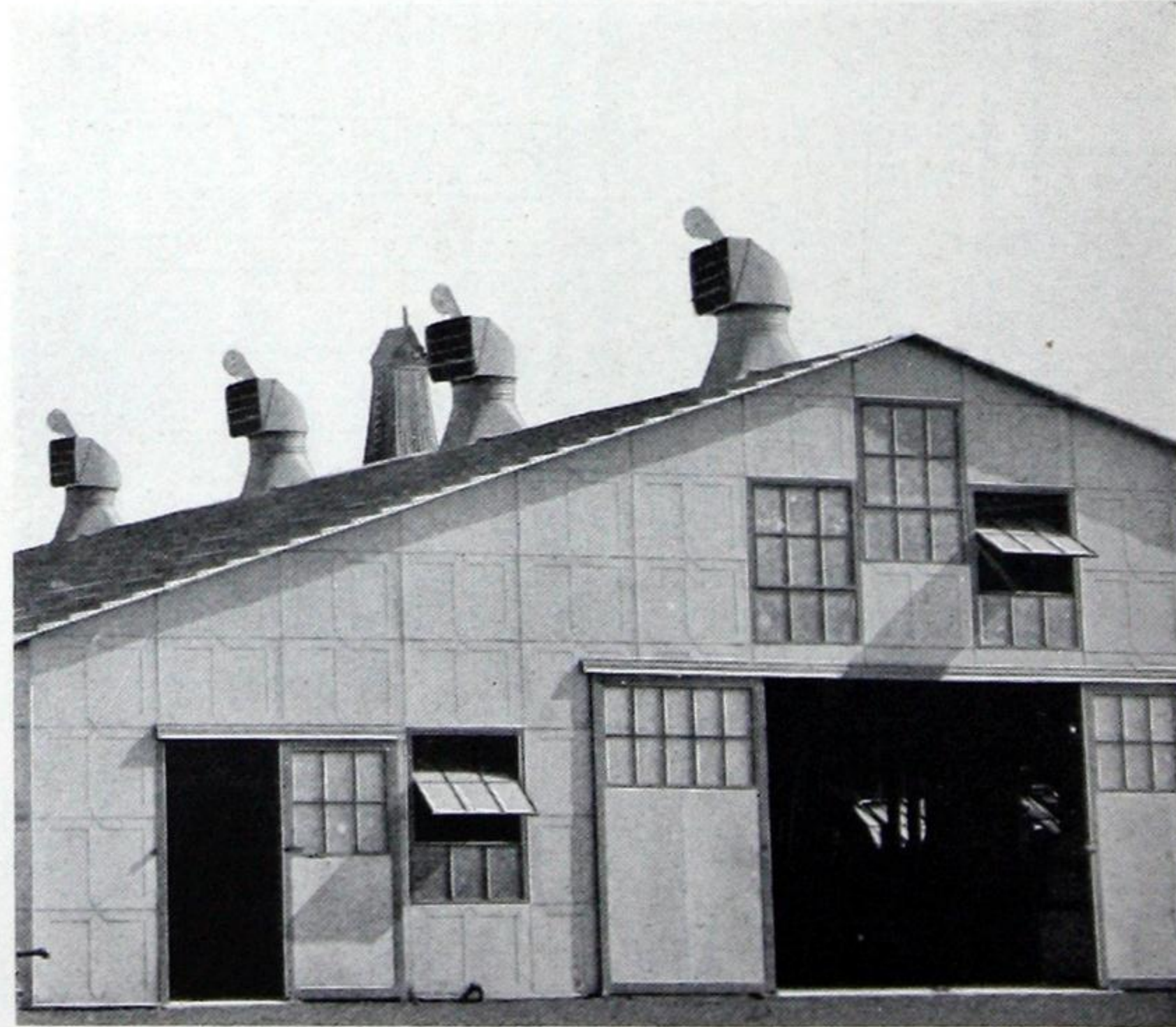
The semi-mechanical ventilator, shown below, revolves with the wind, which produces a continuous suction for maintaining a proper change of air.

Heat and ventilation are major factors in determining the design of a Truscon Building. They are always carefully considered.

Special conditions are closely studied so that the completed structure fulfills every demand for economical control of temperature and air movement.



HEATER IN PLACE WITHOUT OBSTRUCTING FLOOR



VENTILATORS SWING FREELY WITH THE WIND

Natural Ventilation Completely Controlled

NATURAL ventilation is now a recognized free aid to industry. Full value is secured only through proper control.

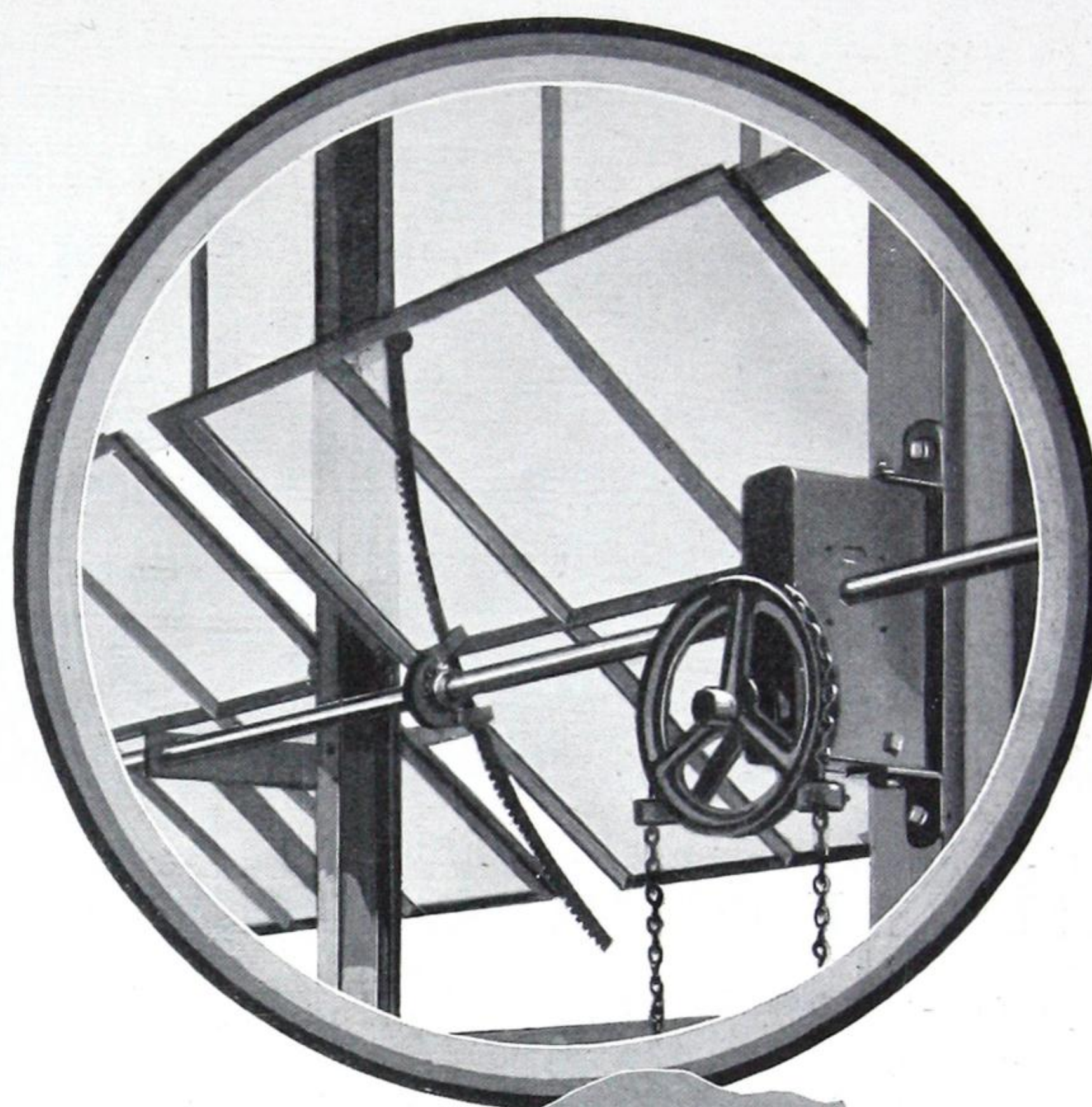
For mechanically controlling the operation of runs of sash, as units or as groups, Truscon builds a complete line of operators. These are designed for manual and electrical operation or thermostatic control.

By the use of Truscon operators, the regulation of natural ventilation is centralized, responsibility for it becomes fixed, and the working environment is greatly improved.

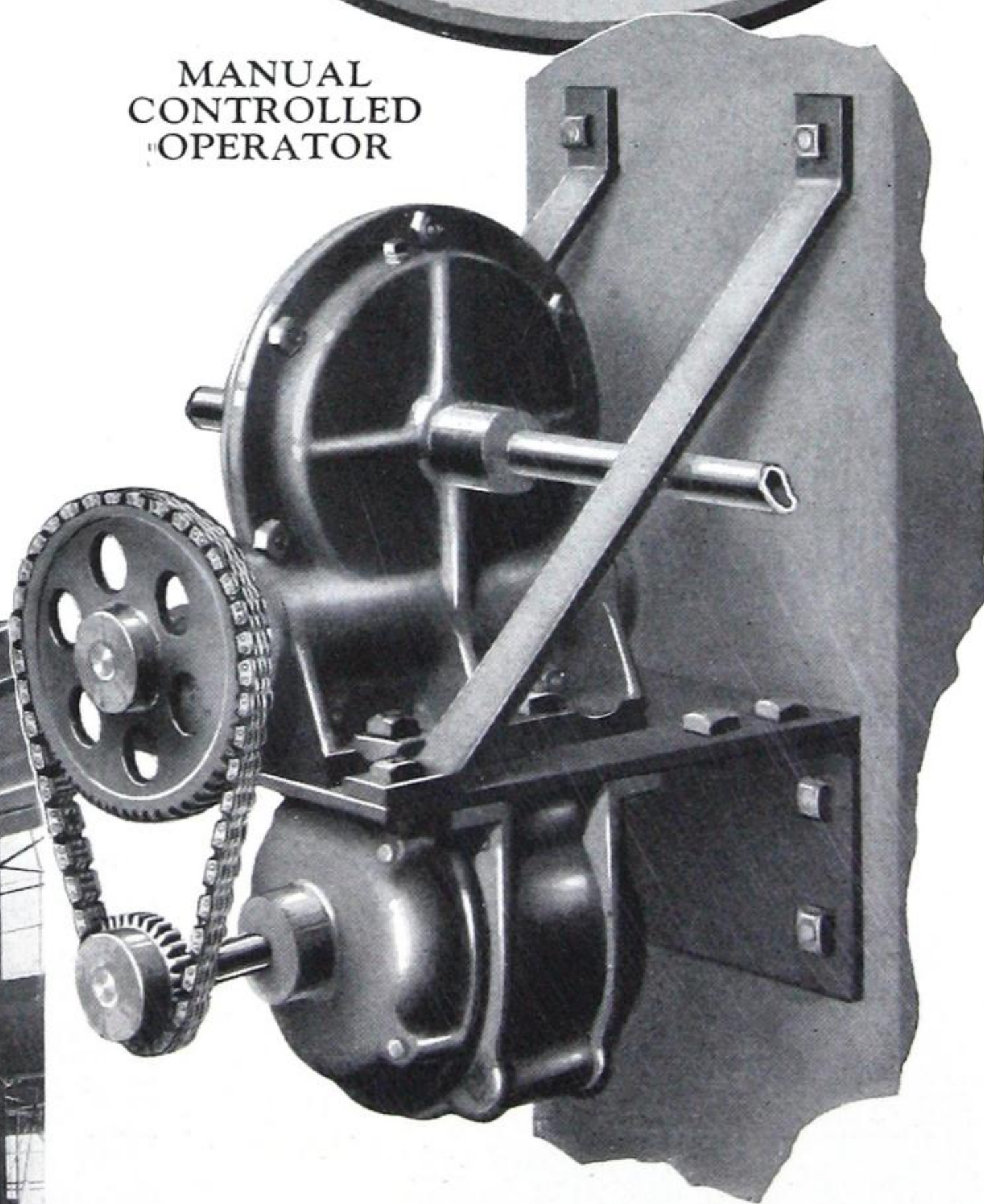
A pull on a chain or touch of the button instantly opens or closes long runs of steel windows. Any desired control of ventilation can be obtained. When quick changes of air are necessary all the windows may be opened by one operation.

Truscon Mechanical Operators are so designed that any requirement, however special, can be effectively and economically met. Many large installations the country over stand as ready proof of their outstanding quality and absolute dependability.

It is impossible to suggest here more than a few of the many possible applications. Regardless of the nature of your daylighting problem, however, there is none too difficult for Truscon Engineers.



MANUAL
CONTROLLED
OPERATOR



Motorized Operators for Centralized Control

TO OPERATE successfully runs of sash a proper arrangement is designed by Truscon daylighting and ventilating engineers. A choice of types of motorized operators for short and long runs of sash is available to meet any practical need.



TRUSCON MECHANICAL OPERATOR INSTALLATION



All Truscon Buildings Are Carefully Planned



C. I. AUTEN
 Manager of Planning and
 Marketing Division

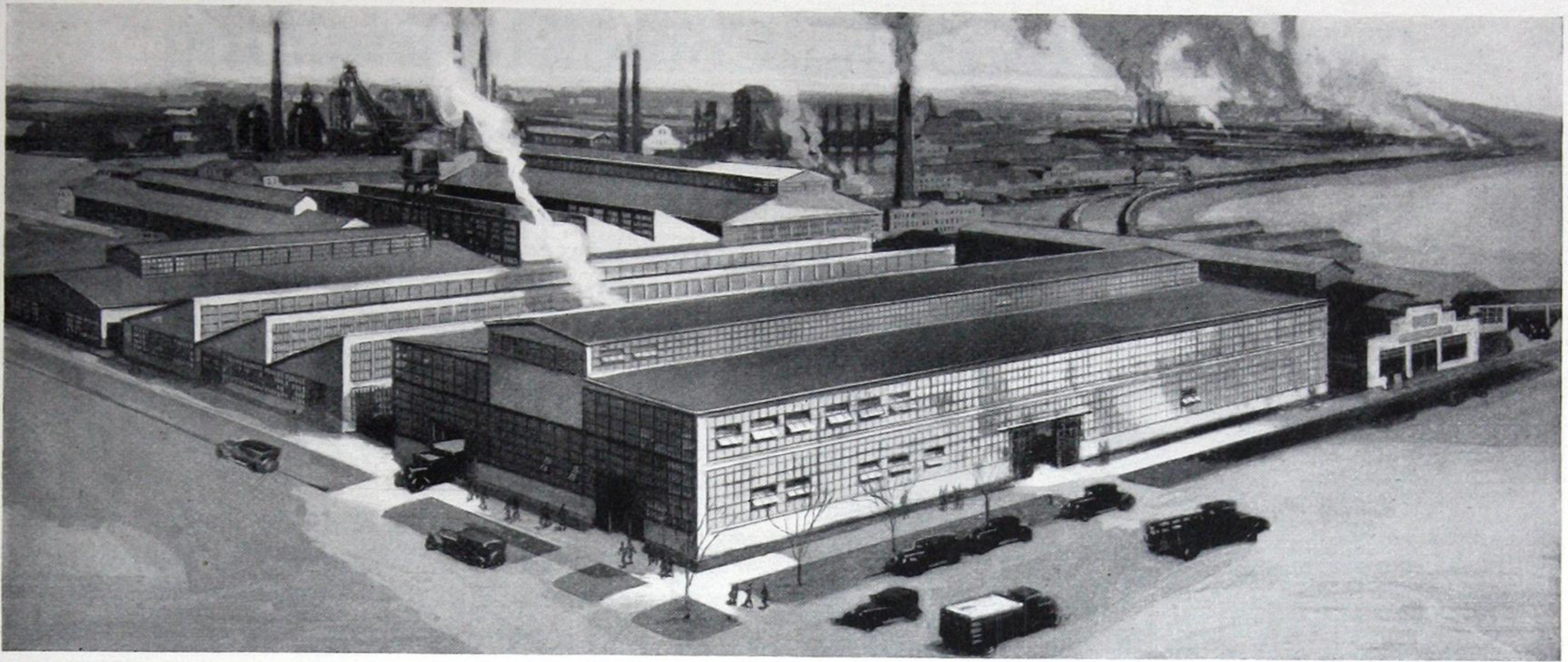


F. W. CUMMER
 Executive Detail and Estimating
 Division

EVERY element of your particular housing problem is carefully established in preliminary discussions with Truscon specialists in steel building design. The purpose for which the building is to be used, the size and location of the site, local building regulations, climatic conditions, daylighting, ventilation and many other factors are painstakingly considered.

In many cases Truscon has already produced buildings for the purpose you have in mind. It is sometimes necessary to study the details of such installations and adapt their features to your structure. On the other hand the projected building may be entirely unique—so different in every characteristic that no example exists to which reference may be made.

Truscon's success in such instances has been no less consistent than in the solution of less difficult problems. For Truscon has been the pioneer in every field of steel building design. The creation of plans for the building that will fit exactly the purpose you wish to apply it to is, from first to last, in the hands of an engineering organization that boasts a quarter-century record of unchallenged leadership.



Fabricated and Erected to Conform to the Plan

THE work of translating the approved plan into a finished structure ready for occupancy is personally supervised by men thoroughly familiar with every feature of the transaction.

Its progress through the plant is thoughtfully planned and scheduled to conform to your special requirements. The date of shipment is decided in advance. So is the day on which erection must begin. Erection Superintendents in charge of crews of trained Truscon men are located at strategic points from coast to coast. The Superintendent who will direct the erection of your building is near at hand and completely informed about every detail of the task he and his men are to perform. Weeks ahead of time Truscon knows exactly when your building will be fully completed.

The demand of a world-wide clientele have made such service necessary. Years of experience and the steady upbuilding of incomparable facilities have made it possible. And along with this accomplishment has gone hand in hand the development of economies that have definitely established Truscon superiority.



A. SENE

Executive Manufacturing Division



M. F. NAGLE

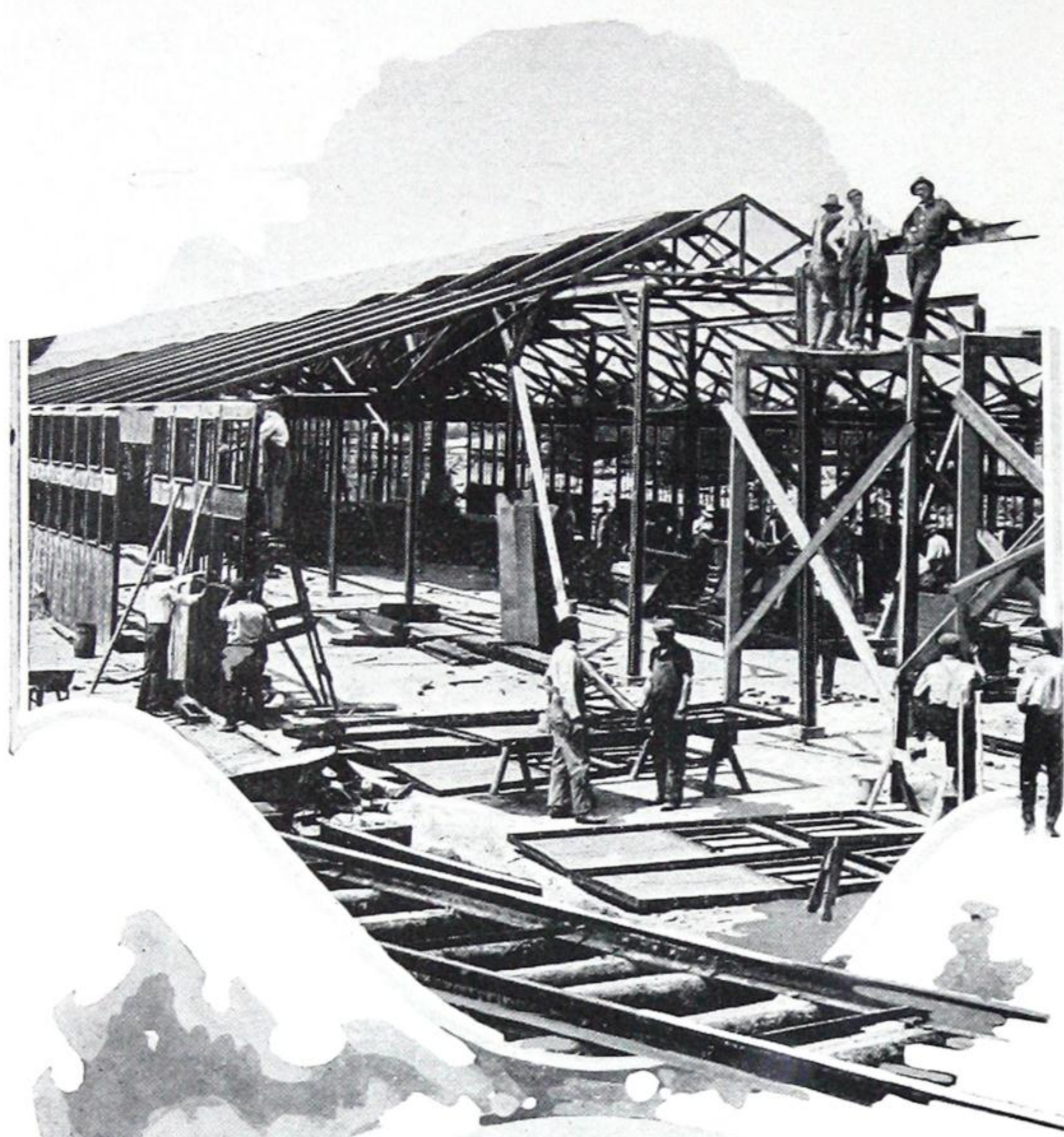
Manager Erecting Division

Truscon Erects the Complete Building

WHEN you buy a Truscon Building you buy a complete structure, erected and ready for occupancy. For Truscon not only manufactures the units of which your building is composed, Truscon also erects the building. Truscon maintains trained men who specialize in the erection of Steel Buildings. Every detail of assembling the material into a completed building is supervised and done by Truscon men.

This is a big factor in the economy of Truscon buildings. The savings effected for you by this erection service are responsible to an important degree for their low cost. The work is done in an orderly manner. No time is lost. No material is wasted.

Experience with scores and hundreds of other Truscon Buildings of all sizes and styles, and for many different uses, has fitted these men to handle the erection of your building more satisfactorily than it could possibly be done by inexperienced workmen.

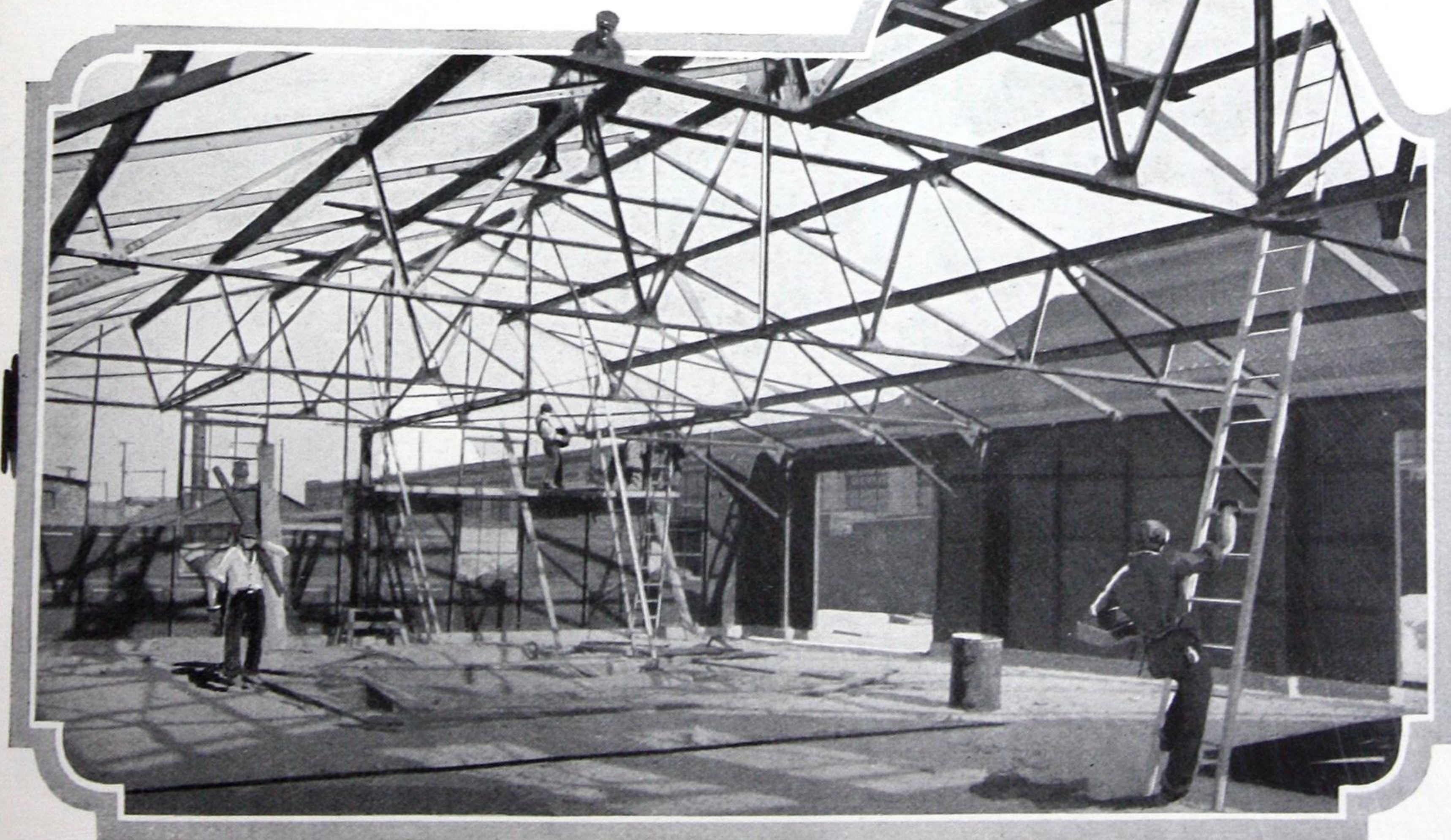
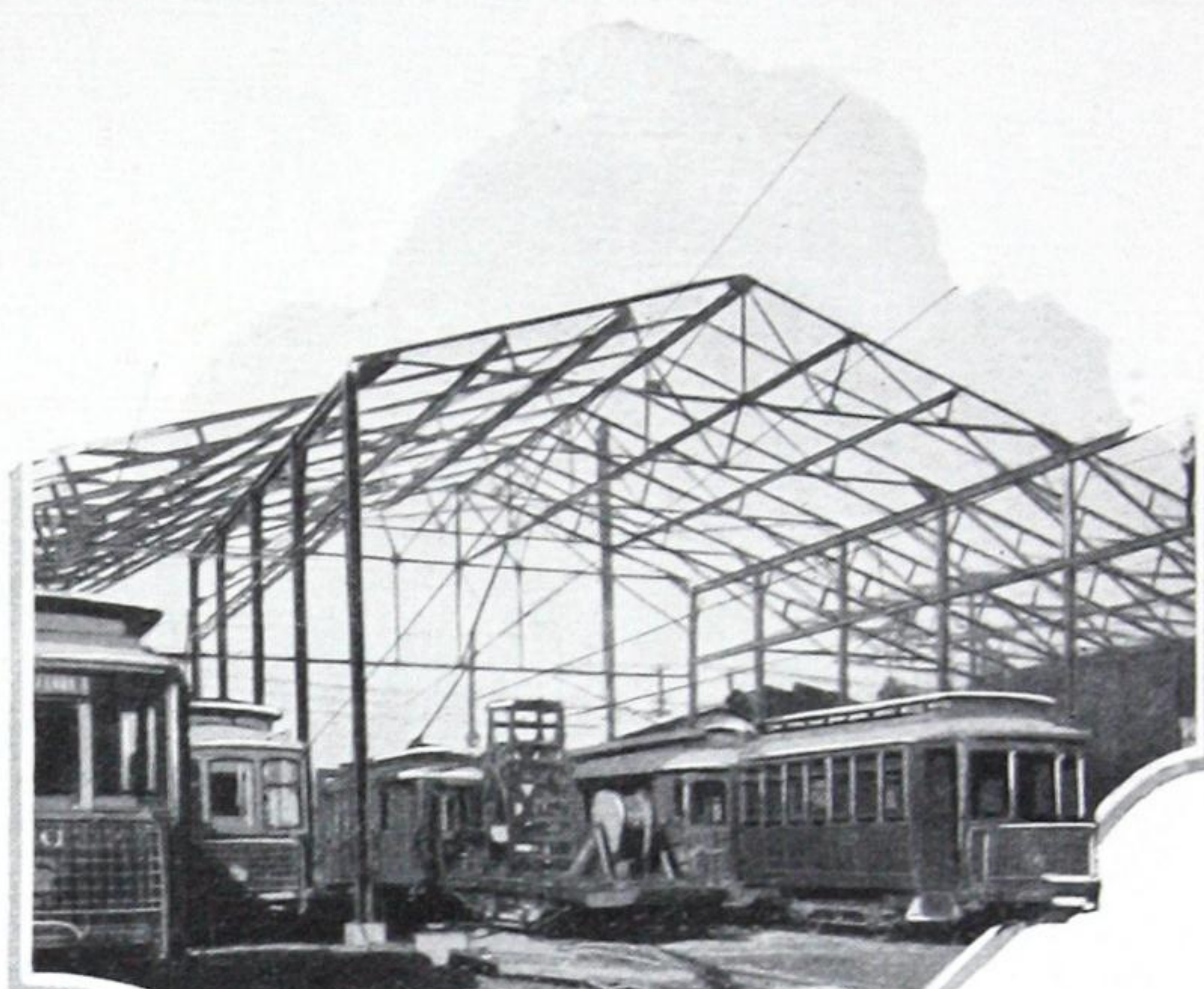


A Nation-Wide Service Organization

ANOTHER important saving effected for you through Truscon Erection Service comes about through the speed with which these buildings are put up. Many cases arise where this feature alone represents a saving to the customer that exceeds the entire cost of the building.

The right building erected and ready for use on a certain date permits important adjustments in the production schedule which, in their turn, are reflected in greater sales and greater profits. When a Truscon Building, for example, is being erected to take the place of a structure destroyed by fire, every day saved means heavy losses averted and quicker return to normal operation.

Truscon Erection Service also assures you that your building will be exactly as designed. There will be no oversights, no slipshod workmanship, because the men who assemble the units are specialists who take pride in their efficiency and a personal interest in delivering to you a building that is representative in every respect.



Truscon Simplified Manufacturing Is Economical

LIKE every other Truscon Product, Truscon Steel Buildings depend for their success upon the economies they effect for the user. If Truscon Steel Buildings offer the customer a better value per dollar invested than any other appropriate construction it is because of the tremendous resources which Truscon draws upon in producing them.

Truscon's fifty-acre plant at the heart of the steel producing industry is the largest in the world devoted to the manufacture of Steel building products.

It is this combination of equipment, experience and skill which has consistently led in the world of permanent building for nearly a quarter of a century—which was the first to develop the steel building for commercial and industrial use.



FIG. 1.



FIG. 2.

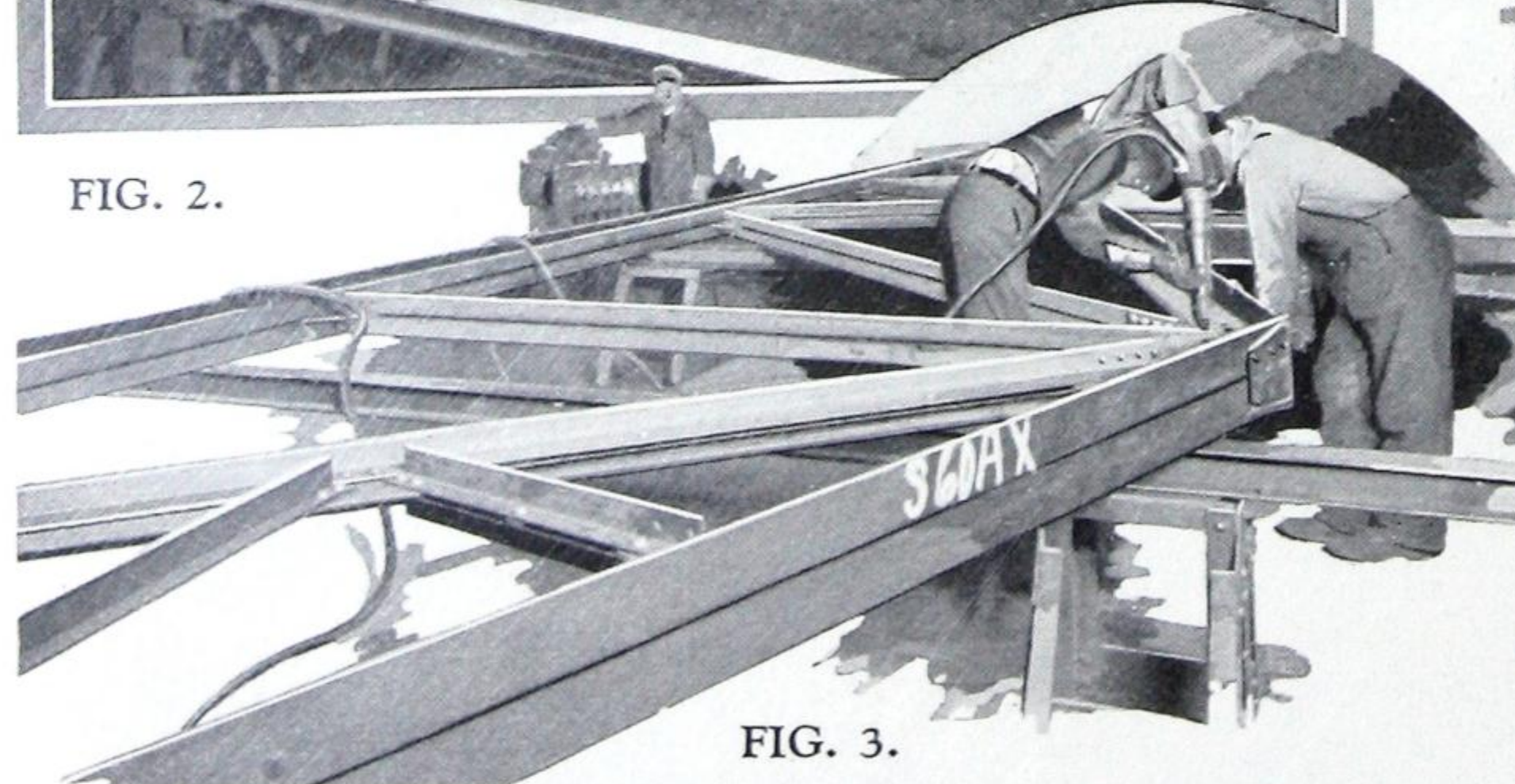


FIG. 3.

FIG. 1. RAW STOCK DEPARTMENT

FIG. 2. INTERIOR OF STRUCTURAL STEEL SHOPS

FIG. 3. ASSEMBLING TRUSSES

FIG. 4. BUILDING STEEL WINDOWS

FIG. 5. FORMING INTERLOCKING STEEL ROOF PLATES

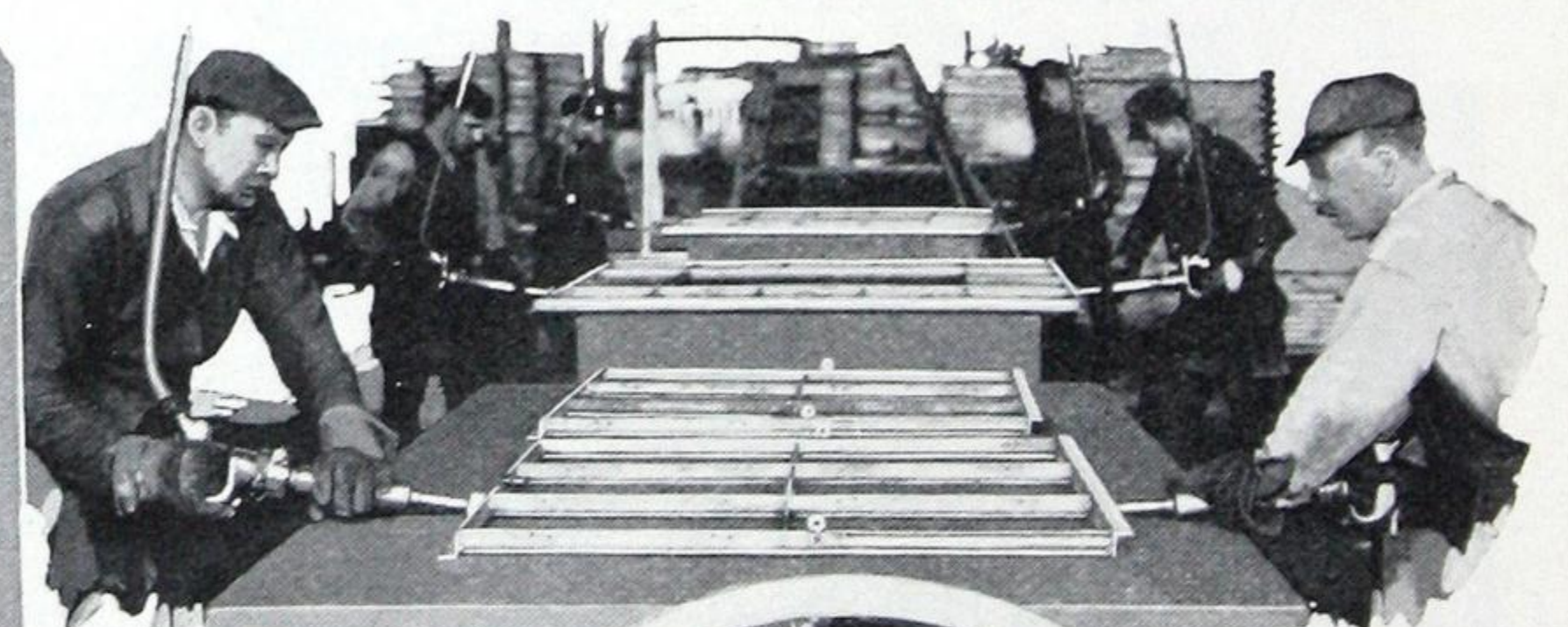


FIG. 4.

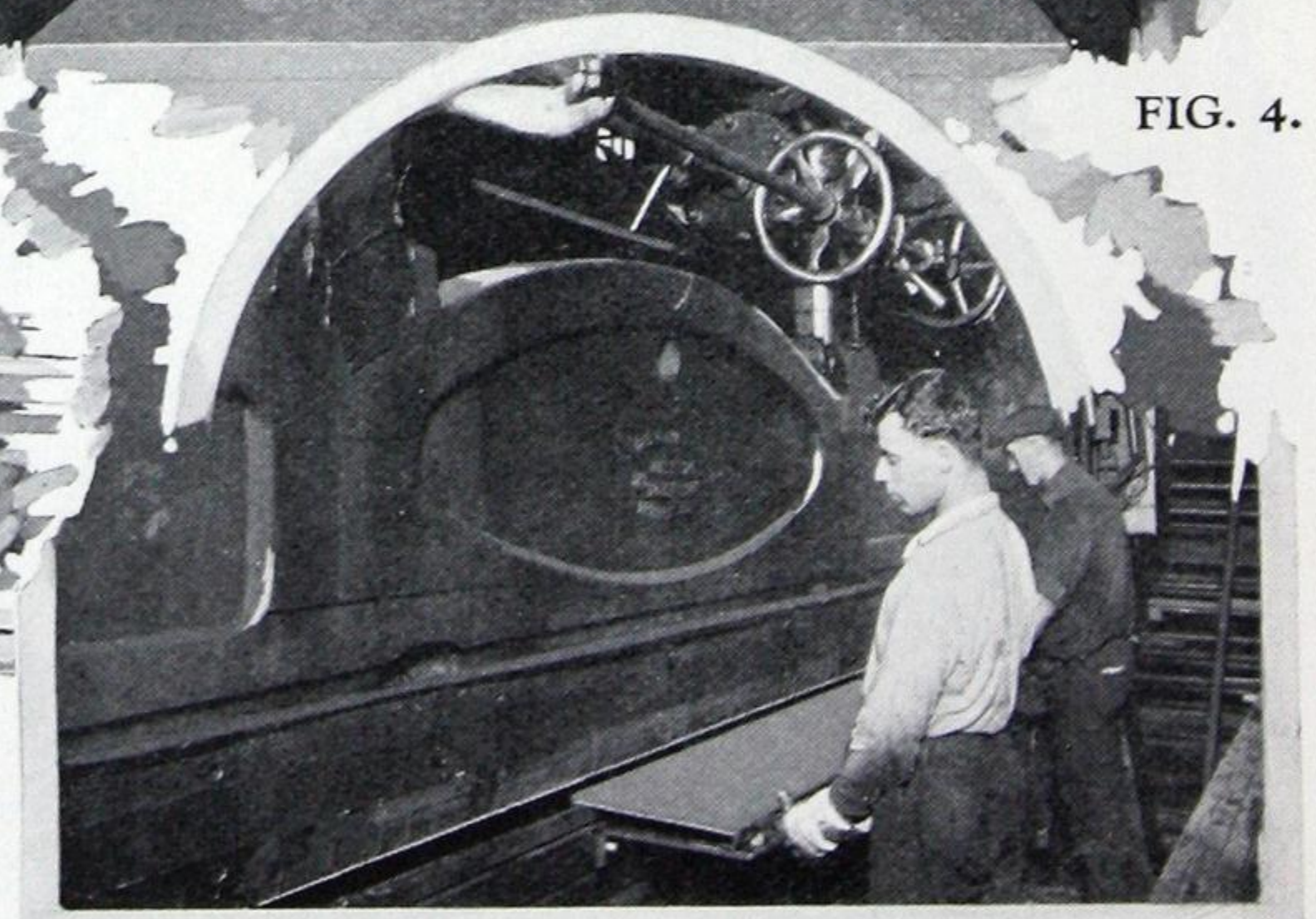


FIG. 5.

Every Building Part Is a Truscon "Standard"

EACH separate part of every Truscon Steel Building is standardized and manufactured in a plant fully equipped and organized to produce that part at the lowest possible cost consistent with quality. Special machinery designed by Truscon experts and used exclusively by Truscon is employed in their fabrication. Every effort is directed toward the one object of ultimate economy for the purchaser.

Although highly successful from the first, Truscon Steel Buildings have been steadily improved as experience has suggested changes in design. Their present perfection is the result of years of close study of every condition affecting a wide range of housing problems.

The floor area covered by Truscon Steel Buildings has reached the colossal total of twenty million square feet.

FIG. 1. DRILLING TUBULAR DOOR FRAMES FOR HARDWARE

FIG. 2. ALL PARTS RECEIVE A UNIFORMLY HEAVY COAT OF BAR-OX PAINT

FIG. 3. ELECTRIC SPOT WELDS CAN BE RELIED UPON

FIG. 4. INTERIOR OF FINISHED STOCK DEPARTMENT

FIG. 5. LOADING QUICKLY AND SAFELY TRUSCON BUILDINGS

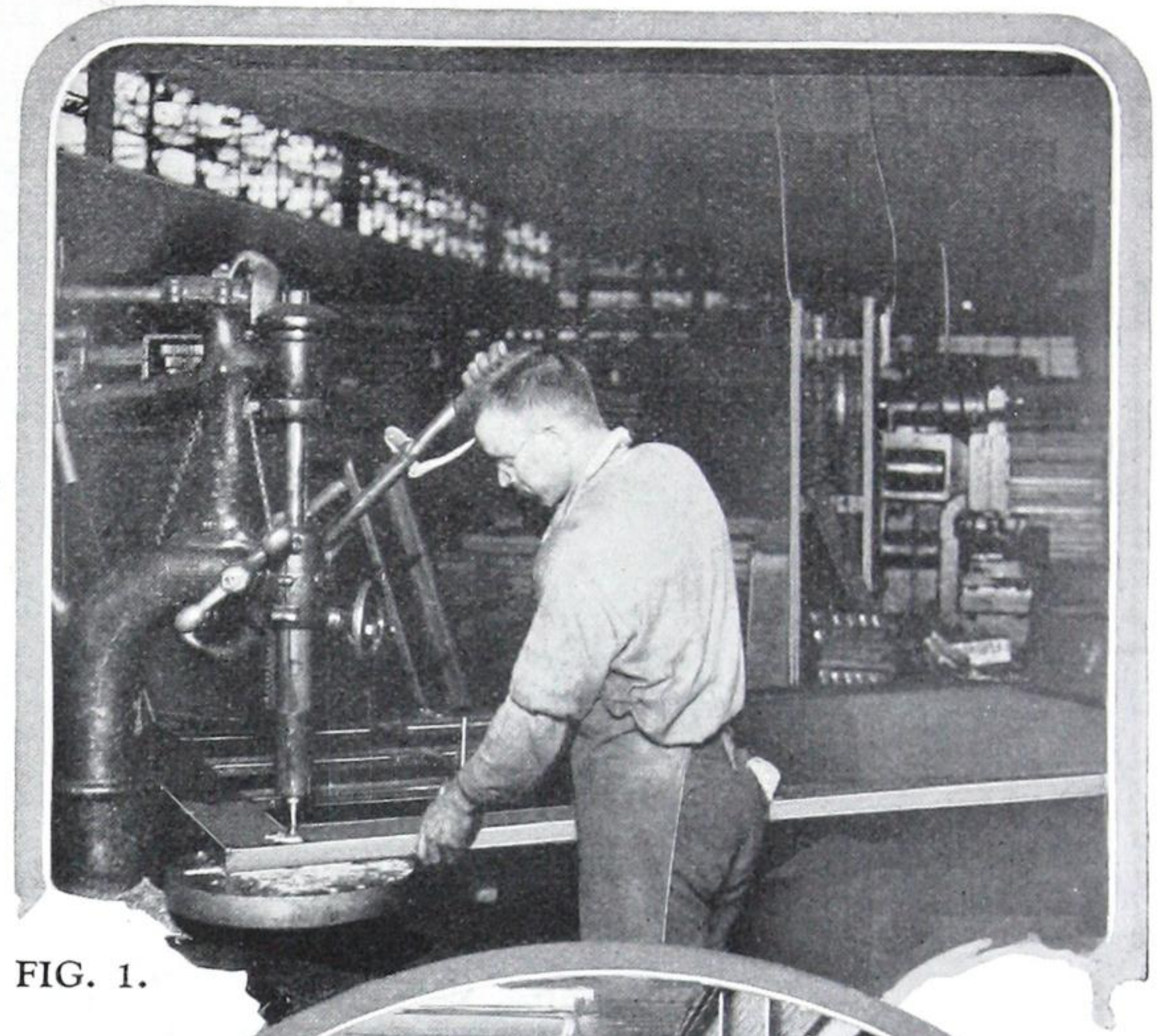


FIG. 1.

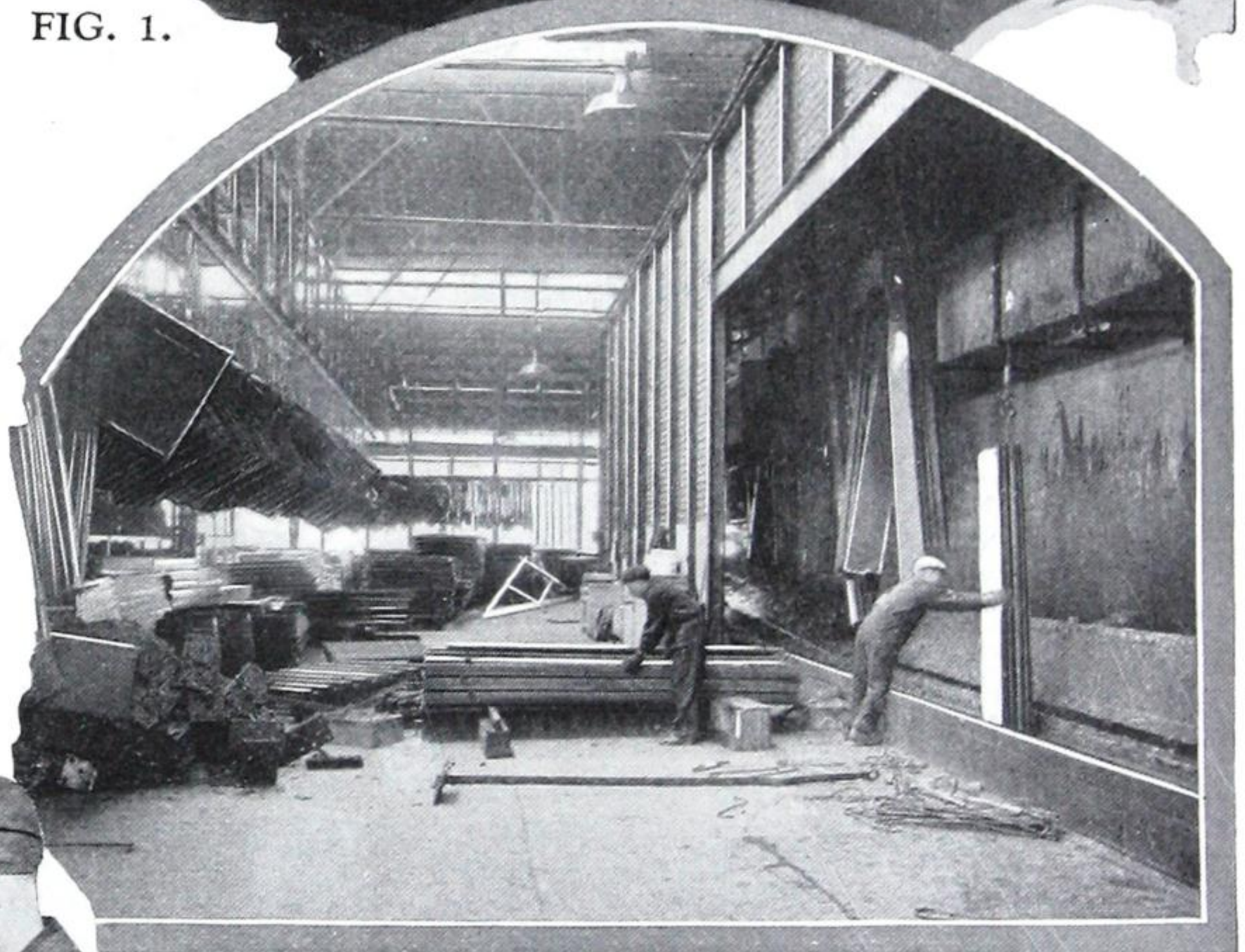


FIG. 2.

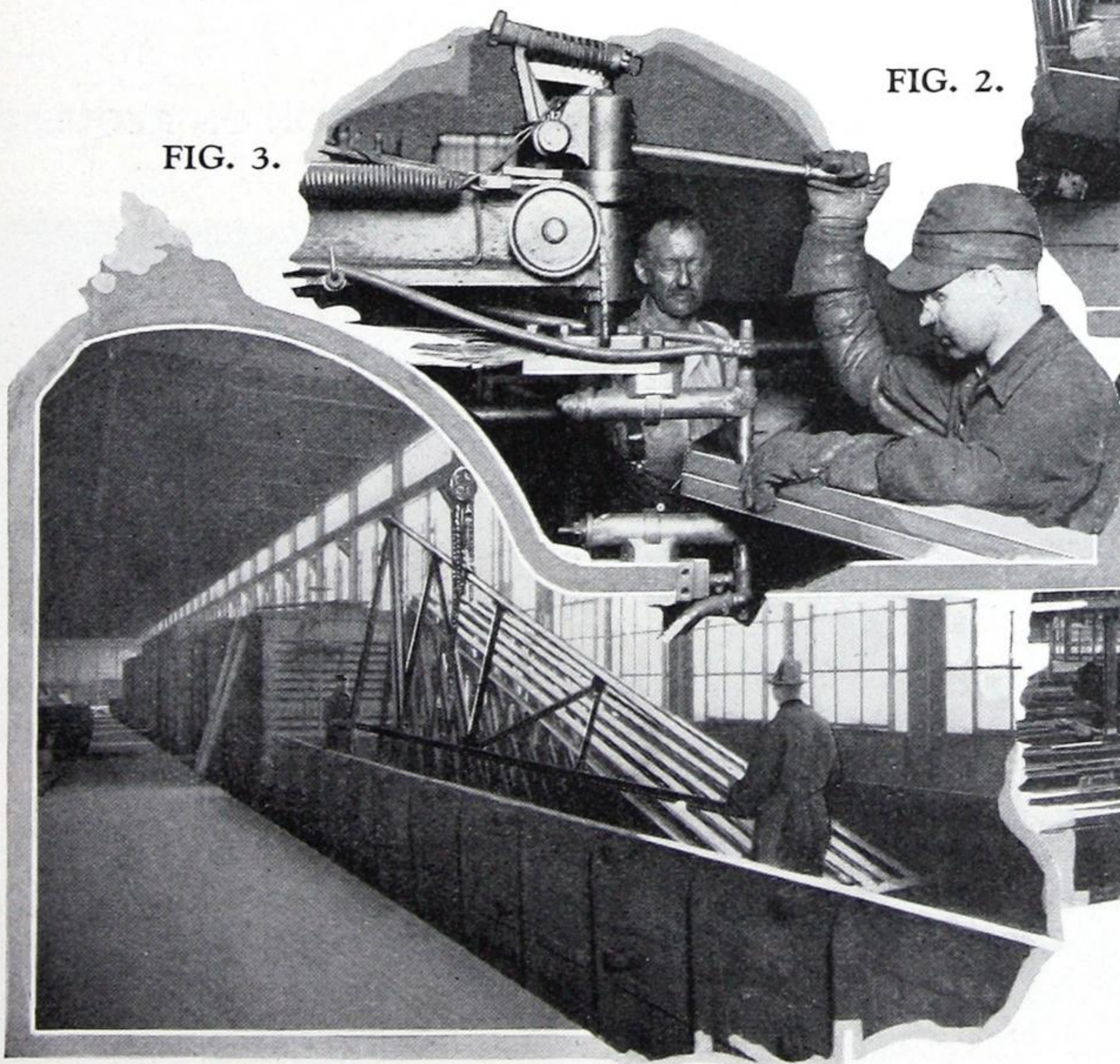


FIG. 3.



FIG. 4.

FIG. 5.

Products of the Truscon Laboratories

Waterproofings Factory Maintenance Products Technical Paints

BAR-OX INHIBITIVE STEEL PAINT

A WATERPROOF paint film for exteriors and interiors. It resists weathering and wears much longer than ordinary paints. In addition to its waterproofness, Bar-Ox is composed of rust-inhibitive pigments which give it the highest degree of rust resistance.

INDUSTRIAL WHITE FOR INTERIORS

INDUSTRIAL WHITE gives a beautiful uniformly white surface which does not turn yellow or hold dust. It is used in hundreds of mills and factories for keeping interiors bright. Economical because of its great opaqueness and covering quality.

WATERPROOFING PASTE FOR FLOORS

IT PREVENTS seepage of moisture so that concrete floors can later be painted or varnished. If a wood floor is laid over the concrete, Truscon waterproofing paste prevents rotting. It is a waterproofing that becomes an integral part of the concrete.

TRUSCON METALLIC FLOOR HARDENER

PROVIDES a tough, hard, "iron-like" surface which enables the floor to give much longer service under severe conditions. Especially useful for

warehouse and factory floors. Truscon Metallic Floor Hardener is mixed with dry cement and sprinkled over the floor at the time the finishing work is done.

TRUSCON AGATEX FLOOR HARDENER

A CHEMICAL floor hardener applied only to floors which have already "set." Truscon Agatex is recommended for use where floor wear is less severe than on those requiring metallic floor hardener. It is mixed with water and applied by sweeping.

TRUSCON FLOOR ENAMEL

FOR concrete, wood or composition floors, Truscon Floor Enamel provides a beautiful, smooth, satiny finish which withstands wear and washing. Especially recommended for interiors where high grade floor finish is desired.

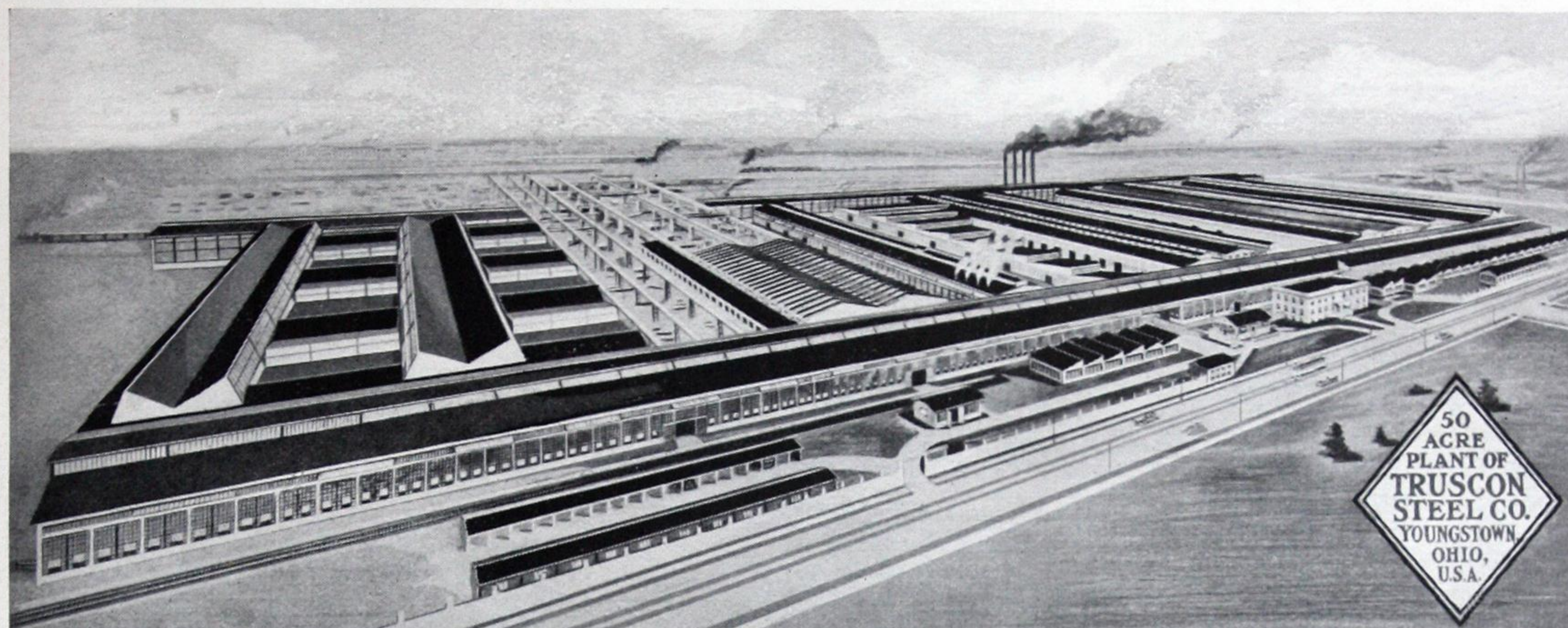
TRUSCON GRANATEX FLOOR VARNISH

A TRANSPARENT waterproof varnish for concrete, oxychloride and wood floors. Granatex acts as a binder for the surface, prevents dusting and resists foot-wear. It makes the surface easy to clean because dirt, oil and other staining materials are not absorbed.

THE TRUSCON LABORATORIES, DETROIT, MICHIGAN, FURNISH SPECIALIZED INFORMATION ON REQUEST



TRUSCON WATERPROOFING PRODUCTS REDUCE INTERIOR AND EXTERIOR MAINTENANCE COSTS



CALL IN A TRUSCON ENGINEER

TRUSCON'S organization of Sales Offices and Warehouses completely covers the country. Through any of these offices you can obtain the services of a complete engineering force and of specialists in the economical application of Truscon Products.

Branch Offices at Your Service

Albany, N. Y., 100 State Street
Atlanta, Ga., 702 Wynne Claughton Bldg.
Baltimore, Md., 406 Builders Exchange
Birmingham, Ala., 513 N. 21st Street
Boston, Mass., 147 Summer St., No. 9
Buffalo, N. Y., 726 Genesee Bldg.
Chicago, Ill., 165 E. Erie Street
Cincinnati, O., 617 Provident Bk. Bldg.
Cleveland, O., 4614 Prospect Ave.
Columbus, O., 1000-04 Ferris Bldg.
Dallas, Tex., 115 Field Street
Dayton, O., 110 S. Wayne Street
Denver, Col., 2941 Walnut Street
Des Moines, Ia., 417 Hubbell Bldg.
Detroit, Mich., 615 Wayne Street
El Paso, Tex., 1701 Olive Street
Erie, Pa., 801 Palace Hardware Bldg.
Ft. Wayne, Ind., c/o Old Ft. Supply Co.
Greensboro, N. C., 1005 Jefferson Std. Life Bldg.

Harrisburg, Pa., 3025 Derry Street
Houston, Tex., 312 Chronicle Bldg.
Huntington, W. Va., 804 Robson Prichard Bldg.
Indianapolis, Ind., 241 E. Ohio Street
Jacksonville, Fla., 215 Professional Bldg.
Kansas City, Mo., 611 Bryant Bldg.
Los Angeles, Calif., 1480 E. Fourth Street
Louisville, Ky., 621 Marion E. Taylor Bldg.
Memphis, Tenn., 801 Columbian Mut. Tower Bldg.
Miami, Fla., 236 Columbia Bldg.
Milwaukee, Wis., 1200 Straus Bldg.
Minneapolis, Minn., 601 Metropolitan Bank Bldg.
Nashville, Tenn., 217 Vendome Bldg.
Newark, N. J., 38 Clinton Street
New Haven, Conn., 42 Church Street
New Orleans, La., 605 Carondelet Bldg.
New York, N. Y., 31 Union Square
Norfolk, Va., 526-9 Dickson Bldg.
Oakland, Calif., 404 Hobart Street

Oklahoma City, Okla., 319 Magnolia Bldg.
Omaha, Nebr., 402 Arthur Bldg.
Philadelphia, Pa., 1505 Race St.
Pittsburgh, Pa., 2541 Oliver Bldg.
Portland, Ore., 463 Kerby St.
Providence, R. I., 412 Bank of Commerce Bldg.
Roswell, N. M., County Engineer's Office
St. Louis, Mo., 1637 Syndicate Trust Bldg.
Salt Lake City, Utah, 422 McIntyre Bldg.
San Antonio, Tex., 908 Travis Bldg.
San Francisco, Calif., 709 Mission St.
Scranton, Pa., 1642 Roselyn Ave.
Seattle, Wash., 825 Seaboard Bldg.
South Bend, Ind., 221 Christman Bldg.
Springfield, Mass., 476 Main St.
Syracuse, N. Y., 440 Gurney Bldg.
Tampa, Fla., 19 Petteway Bldg.
Toledo, O., 130 Summitt St.
Washington, D. C., 424 Transportation Bldg.

Railroad Department, 165 E. Erie St., Chicago, Ill. Trussed Concrete Steel Co. of Canada, Limited, Walkerville, Ontario
Foreign Trade Department, 90 West Street, New York, N. Y. The Truscon Laboratories, Detroit, Michigan

Truscon Warehouses Are Conveniently Located for Prompt Deliveries

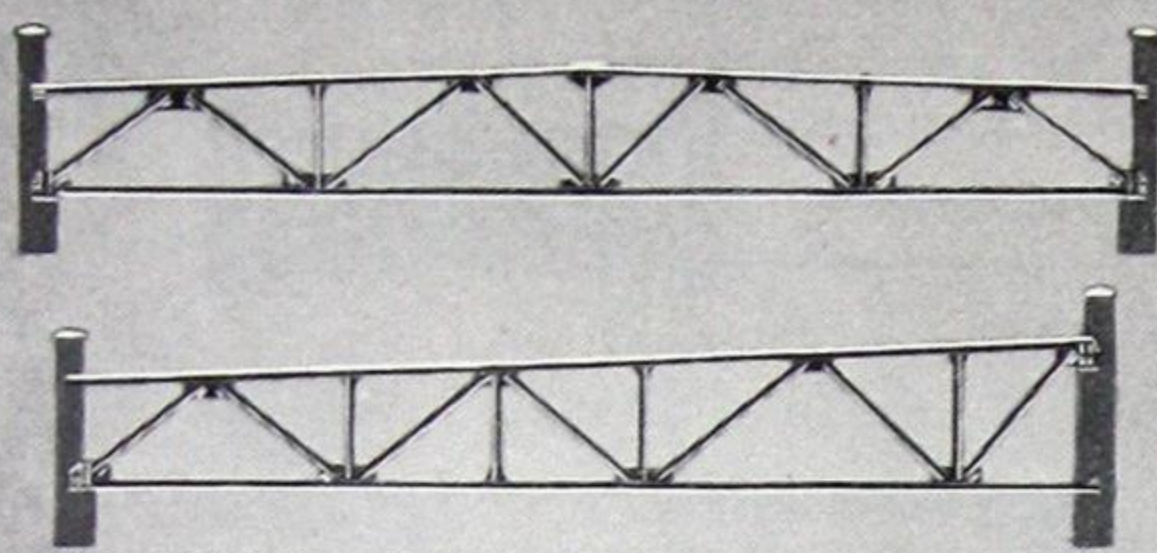
BIRMINGHAM, ALA.
BOSTON, MASS.
BUFFALO, N. Y.
CHICAGO, ILL.
CINCINNATI, OHIO
CLEVELAND, OHIO

DALLAS, TEXAS
DETROIT, MICH.
EL PASO, TEXAS
INDIANAPOLIS, IND.
JACKSONVILLE, FLA.

KANSAS CITY, MO.
LOS ANGELES, CALIF.
MILWAUKEE, WIS.
NEW YORK, N. Y.
NORFOLK, VA.

PHILADELPHIA, PA.
PORTLAND, ORE.
SAN FRANCISCO, CALIF.
ST. LOUIS, MO.
ST. PAUL, MINN.

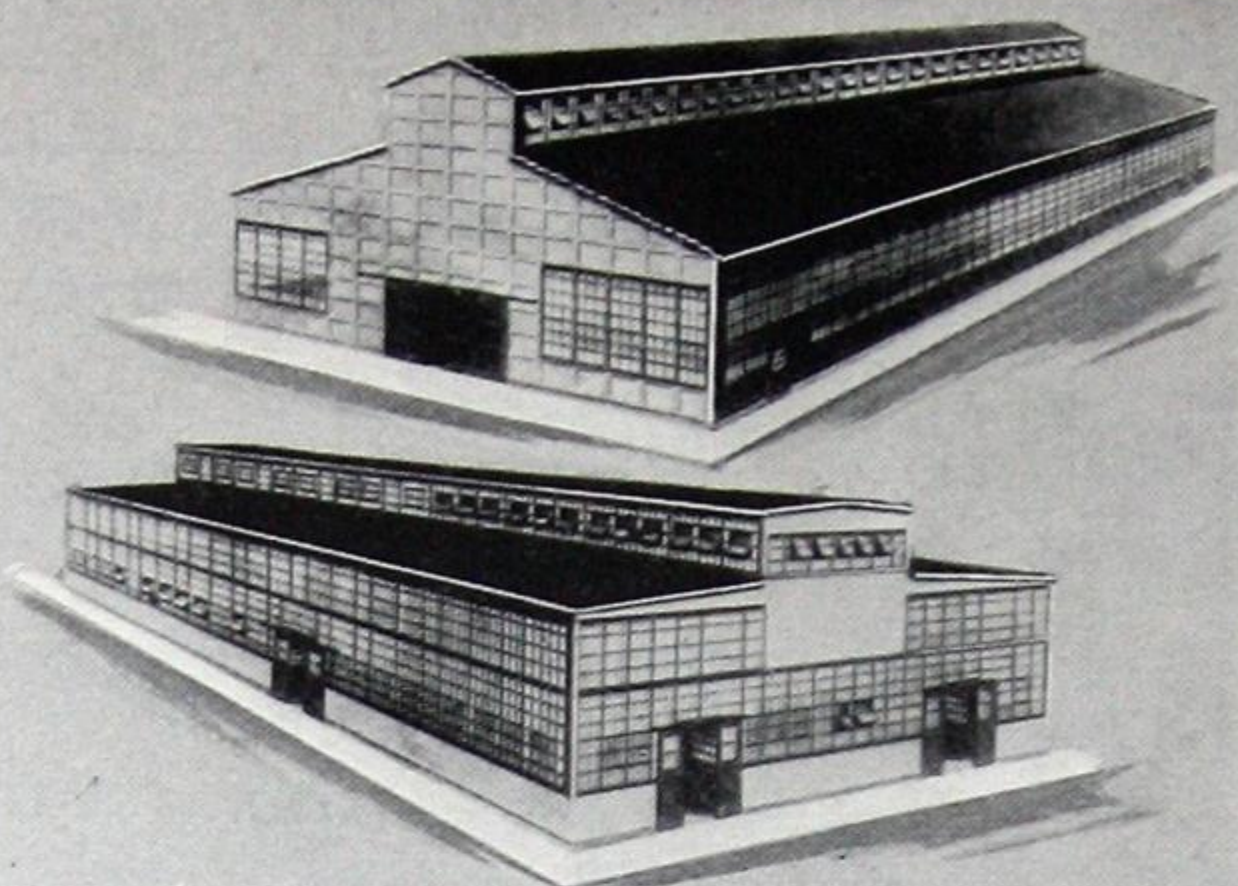
Head Office and Works
YOUNGSTOWN, OHIO, U. S. A.



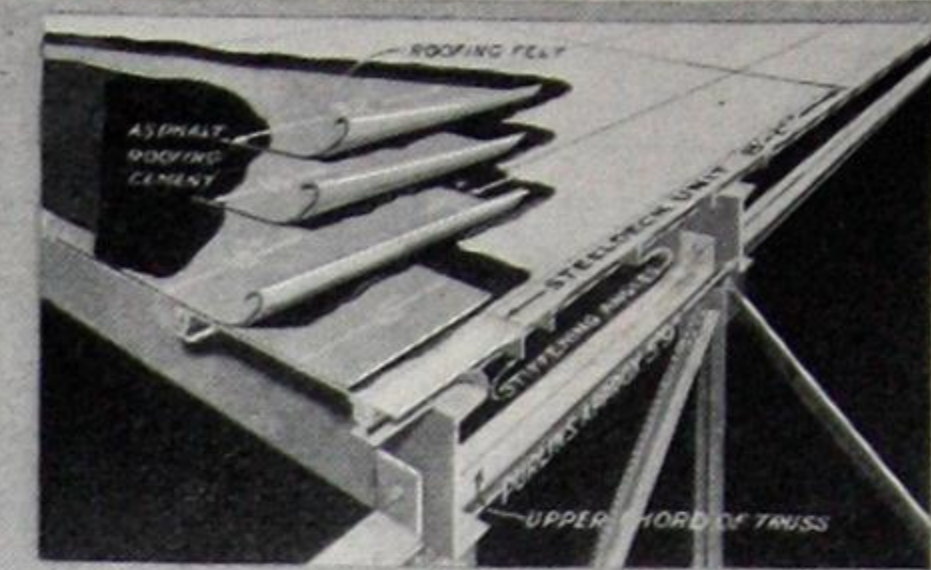
STANDARD STEEL TRUSSES



STEEL INSERTS



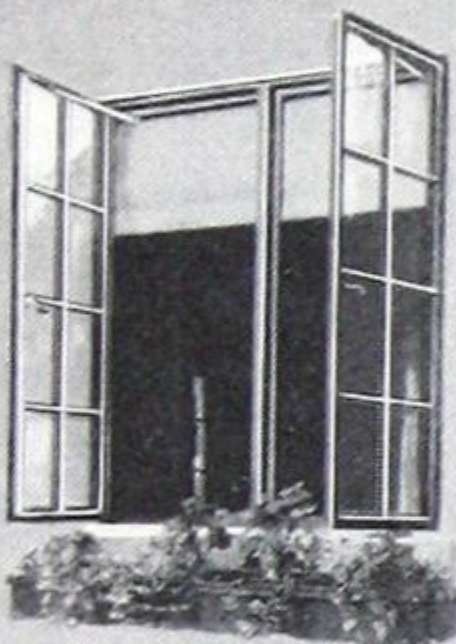
STANDARD BUILDINGS



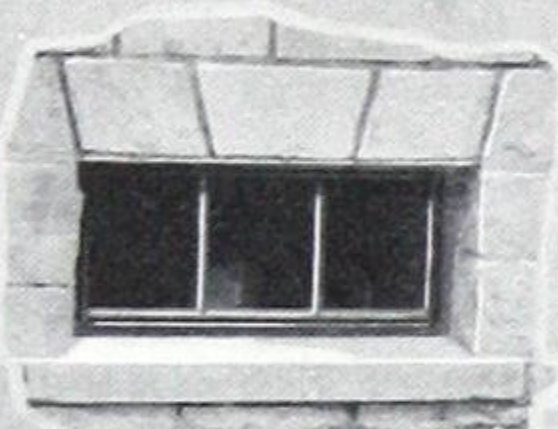
"STEELDECK" ROOFS



3/4" HY-RIB



CASEMENTS
AND BASEMENT
WINDOWS



STANDARD LINTELS

TRUSCON PRODUCTS

INCLUDE:

Standard Buildings

Flat and Pitched Roofs
Monitor and Sawtooth Types

"Steeldeck" Roofs

Structural Steel Trusses

Standard Steel Windows

Center Pivoted Donovan Awning Type
Projected Casements
Counterbalanced Basement
Double-Hung Steel Frames

Continuous Steel Sash

Mechanical Operators for Windows

Metal Lath and Hy-Rib

1-A Lath Corner Bead
Diamond Lath 3/8" and 3/4" Hy-Rib

Steel Joists

Steel Channels

Standard Lintels

Standard Steel Doors

Reinforced Concrete

Rib Bars Floretyles
Kahn Trussed Bars Floreforms
Column Hooping Floredoms

Steel Inserts

Steel Columns, Girts and Purlins

Reinforced Concrete Pavements

Wire Mesh
Contraction Joints
Wing Bars
Curb Bars and Edge Protectors

Steel Poles

Boxes and Platforms

Foundry Flasks

Pressed Steel Parts

Waterproofing

Floor Hardeners

Technical Paints

Cement Tile

TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO

Warehouses and Offices in all Principal Cities



1-A HY-RIB LATH



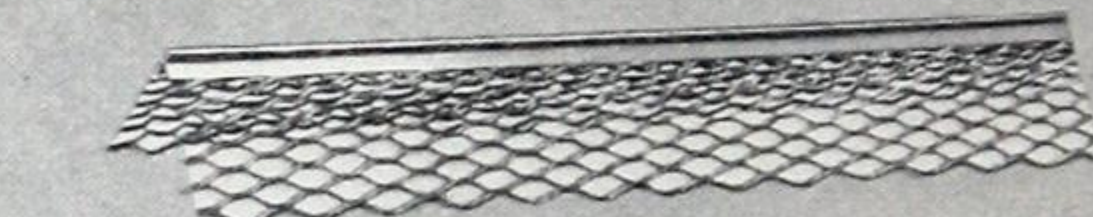
DIAMOND LATH



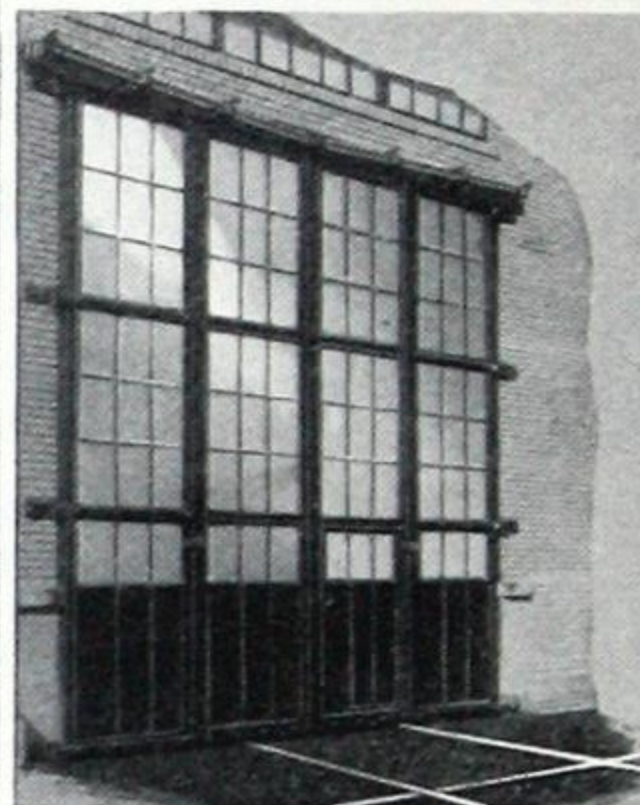
3/8" HY-RIB LATH



CHANNELS



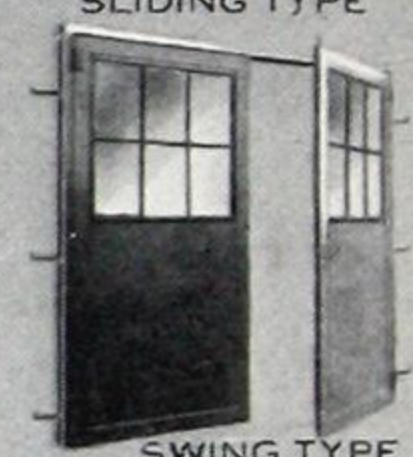
CORNER BEADS



SEAMLESS TUBULAR TYPE

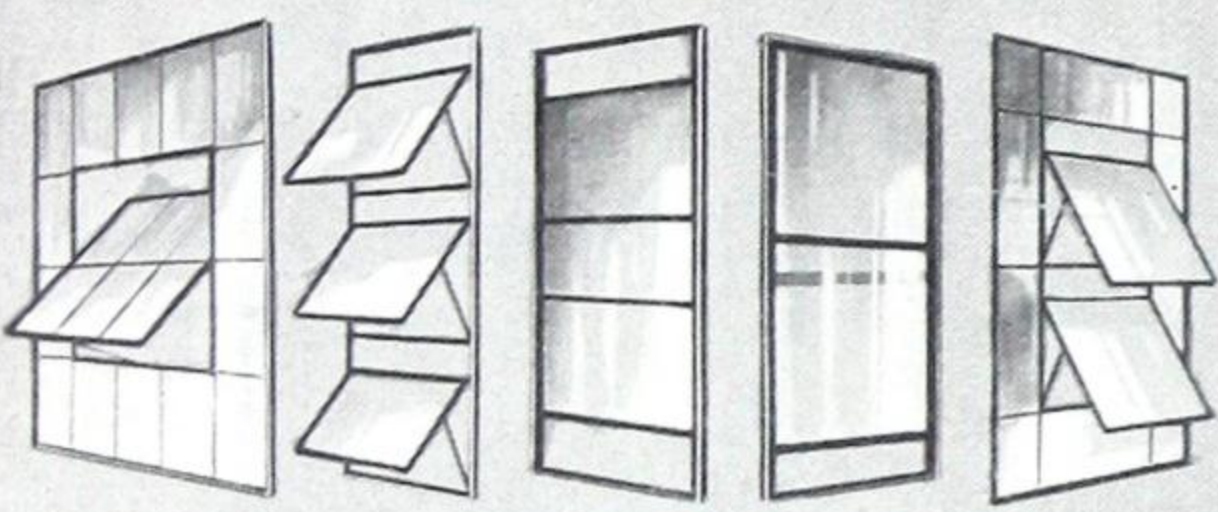


SLIDING TYPE



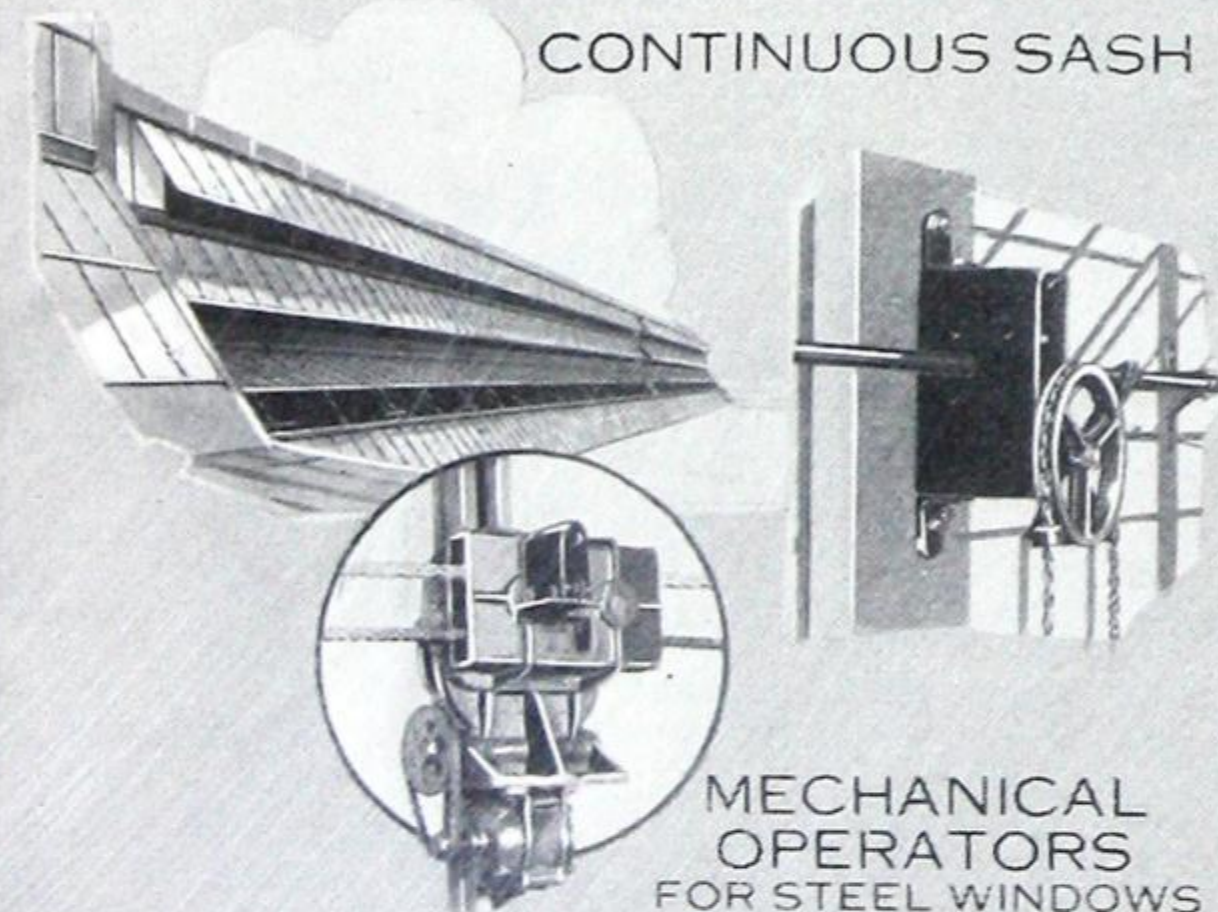
SWING TYPE

STANDARD STEEL DOORS



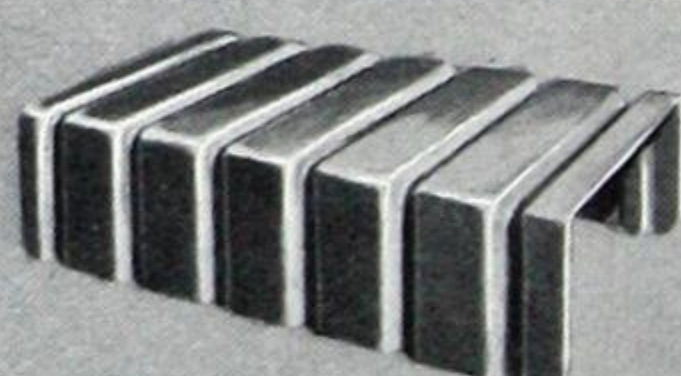
CENTER PIVOTED DONOVAN AWNING TYPE COUNTERBALANCED DOUBLE HUNG PROJECTED

STANDARD STEEL WINDOWS



CONTINUOUS SASH

MECHANICAL
OPERATORS
FOR STEEL WINDOWS



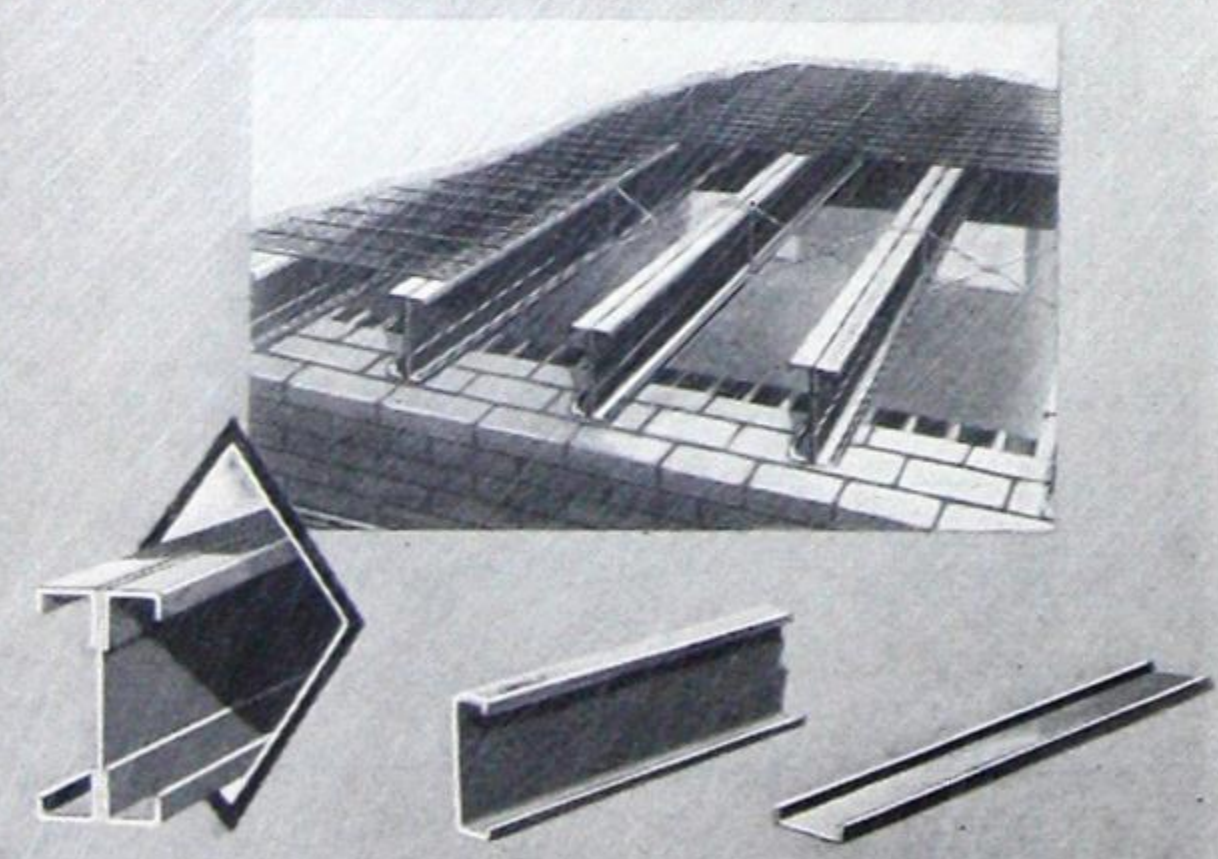
BOXES AND
PLATFORMS



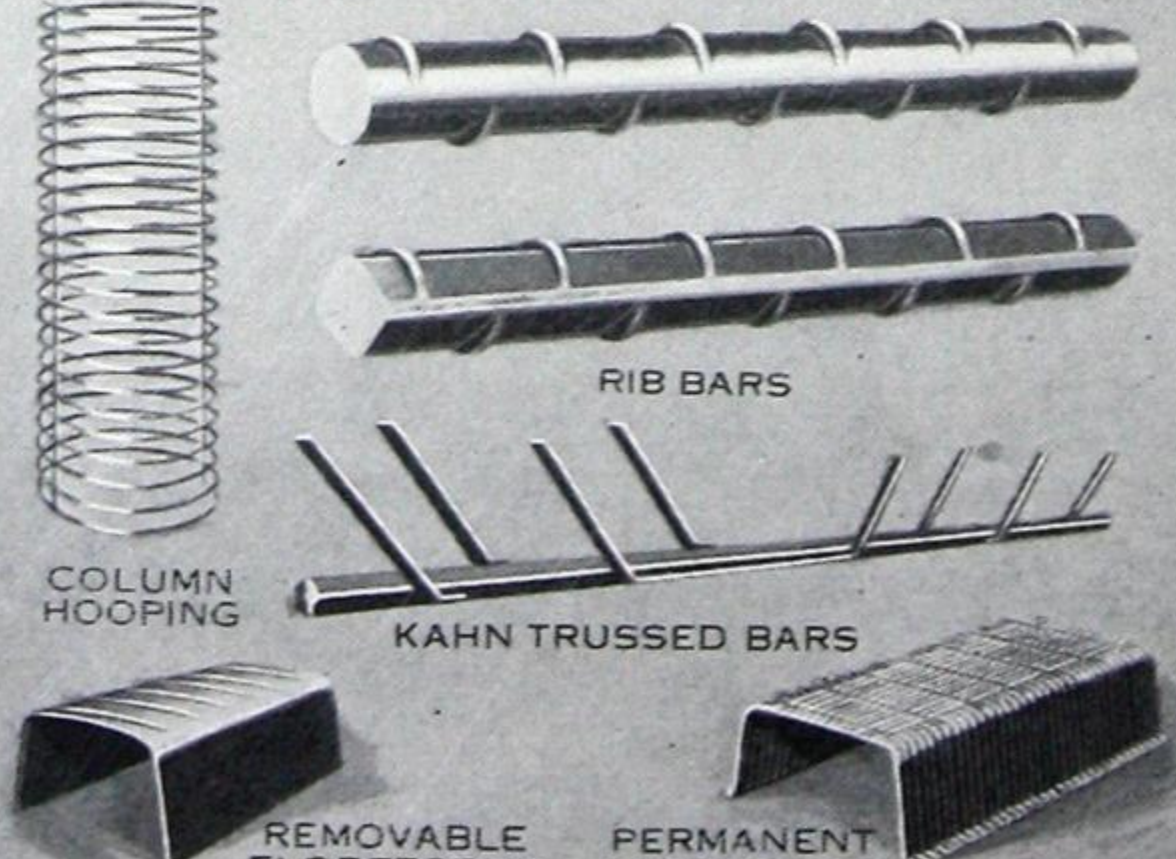
FOUNDRY FLASKS



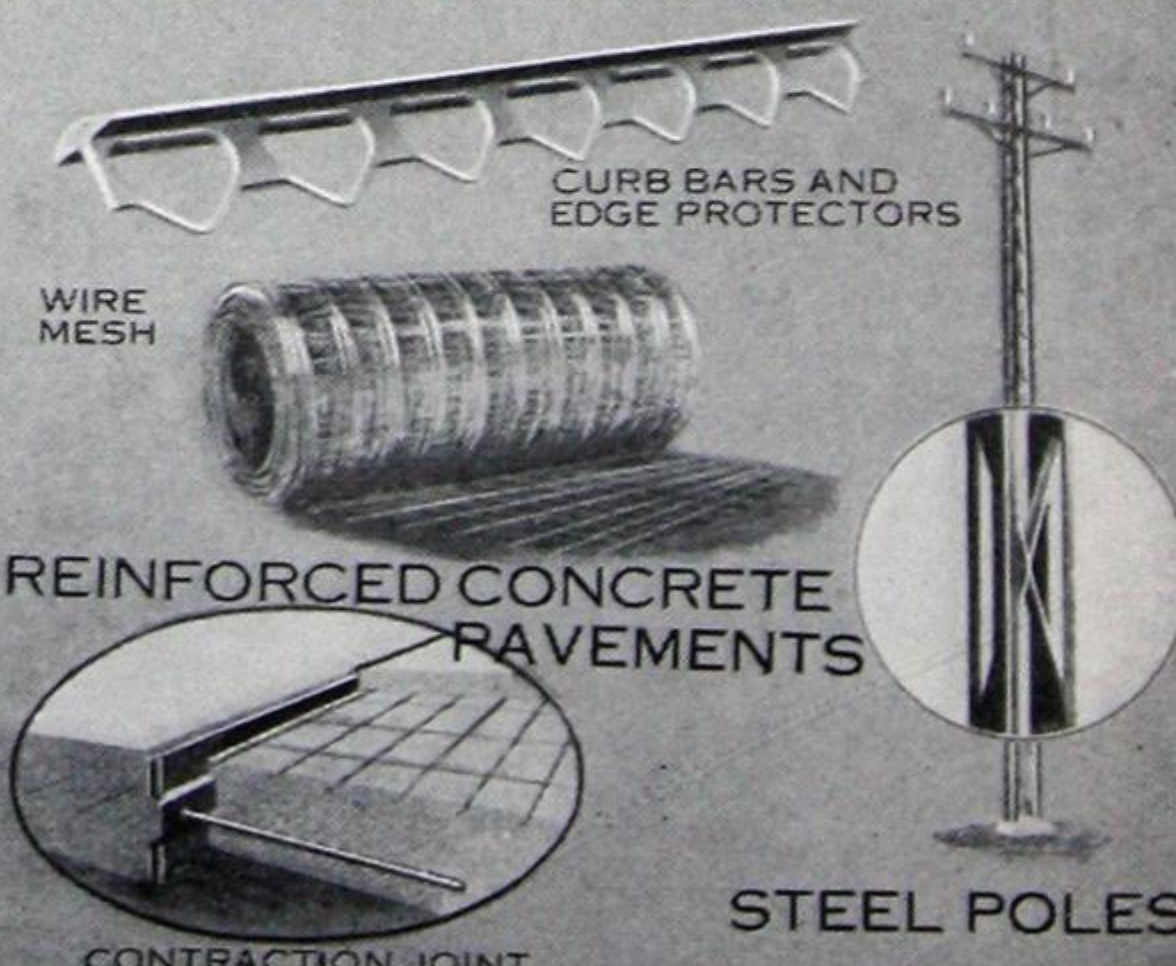
PRESSED STEEL PARTS



STEEL JOISTS



REINFORCING STEEL



REINFORCED CONCRETE
PAVEMENTS

STEEL POLES

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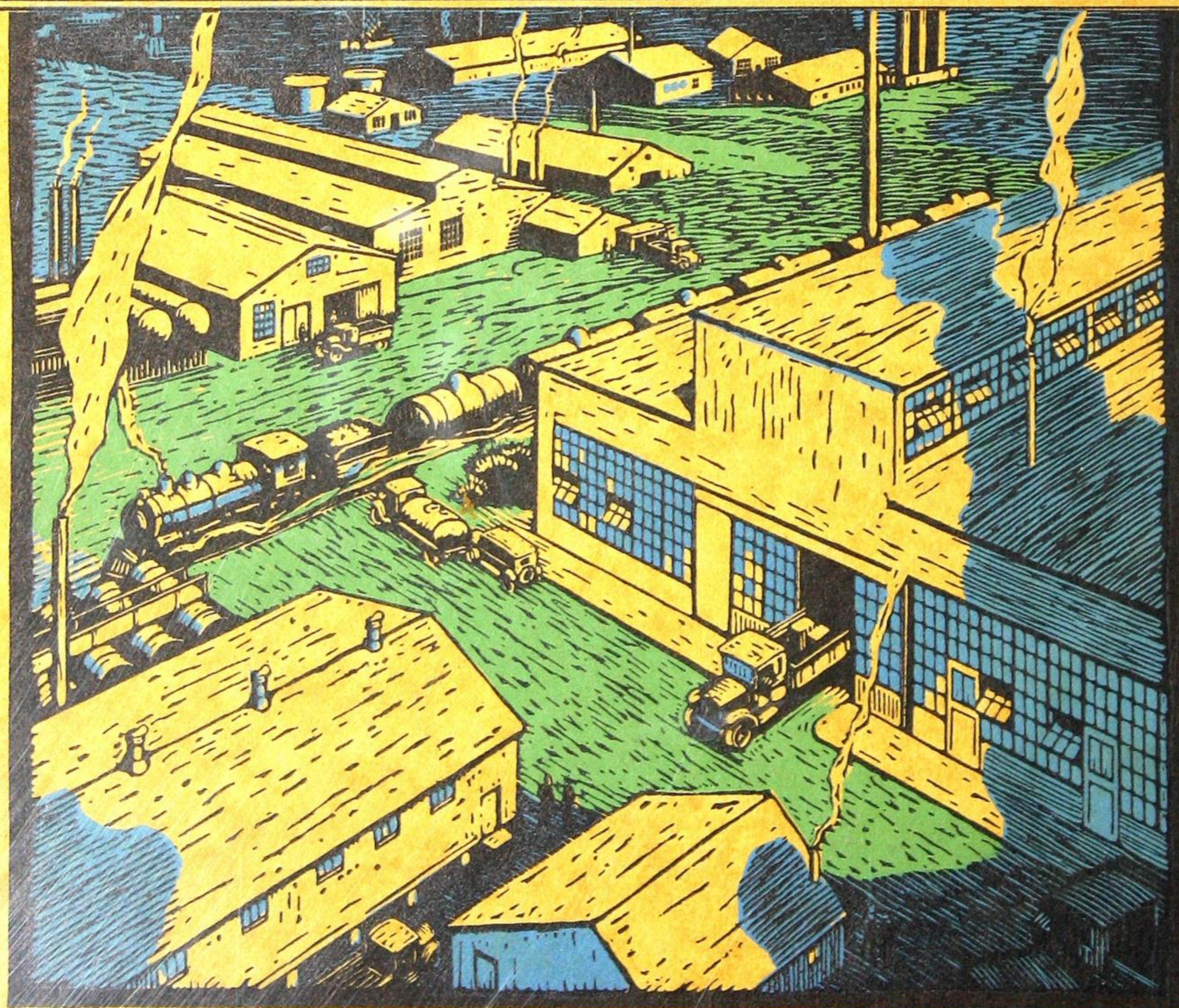
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CO.

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YOUNGSTOWN, OHIO

WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES